

3384/6881  
**FIGURE 3119**

GGGGCCAGACGCCAAGAGGGGCGCGGGGAGCACAGAGAAGCGGAGGGAAGGGCGCCACGTCGAGGGGCCGGGGGA  
GGCGGTGACTGGGGGGCGGAGTGGAGGCTGCACCCGACCGCGGGCGCCCAGCTCGGTTTGGGCGGACGGAGCCC  
TCTGCCGTCGCGAGCCCGGGCCTCGGGAGGGGGACAGGCGGTGGCGGCACCGGGGCCGCTCCGGGACGCAGCGCG  
GAAAGGGGAGCGGCCCCGAGGCTGCGCGCCGGGGGGAGGGCTGGAGGGGGAGCGCTTTGGGGGGTTACAACGCCGG  
CGGCCTGCGAGCGGACTGCCTGCGGGGGGAACCGCCTCCTCGGGCGAAGCGGGGATGGGGGGAGTTGAGGTAGA  
TGAAGAGGAGGCGGCGGGGAATCCGCAGGCCCCGGCGGAGCGCGACCCCGCGGACGGCGCCCGGGACGGGAGTCAG  
CAGCGAGGCAGCGGGCGGCGTCGACGCGGGGCCGCTTGCCCGATGGAGGCGCTGGTGGGCAGAGCGCGGGCAGG  
CGTGGGCCAGGAGGCGGGGGCGGCCGAAGGGGGGGGCCGGGGCCGGCCGGGCCTCACGCAGCTCCGCCG

3385/6881  
**FIGURE 3120**

TTCTCCGCAACCTTCCCTTCGCTCCCTCCCGTCCCCCCCAGCTCCTAGCCTCCGACTCCCTCCCCCCCCTCACGC  
CCGCCCTCTCGCCTTCGCCGAACCAAGTGGATTAAATTACACGCTTTCTGTTTCTCTCCGTGCTGTTCTCTCCCG  
CTGTGCGCCTGCCCGCCTCTCGCTGTCTCTCTCCCCCTCGCCCTCTCTTCGGCCCCCCCCCTTTCACGTTCACTC  
TGTCTCTCCCACTATCTCTGCCCCCTCTATCCTTGATAACAACAGCTGACCTCATTTCCCGATACCTTTTCCCCC  
CCGAAAAGTACAACATCTGGCCCCGCCCGAGCCCGAAGACAGCCCGTCTCCTTGGACAATCAGACGAATTCTCCC  
CCCCCCCCAAAAAAAAGCCATCCCCCGCTCTGCCCGTCTGCACATTGGCCCCCGCGACTCGGCCAGAGCG  
GCGCTGGCAGAGGAGTGTCCGGCAGGAGGGCCAACGCCCGCTGTTTCGGTTTGGGACACGCAGCAGGGAGGTGGGC  
GGCAGCGTCTGCCGGCTTCCAGACACCAATGGGAATCCCAATGGGGAAGTCGATGCTGGTGCTTCTCACCTTCTTG  
GCCTTCGCCTCGTGCTGCATTGCTGCTTACCGCCCCAGTGAGACCCTGTGCGCGCGGGGAGCTGGTGACACCCTC  
CAGTTCGTCTGTGGGGACCGGGCTTCTACTTCAGCAGGCCCGCAAGCCGTGTGAGCCGTCTGCAGCCGTGGCATC  
GTTGAGGAGTGTGTTTCCGCAGCTGTGACCTGGCCCTCCTGGAGACGTACTGTGCTACCCCCGCCAAGTCCGAG  
AGGGACGTGTGACCCCTCCGACCGTGCTTCCGGACAACCTCCCCAGATACCCCGTGGGCAAGTTCTTCCAATAT  
GACACCTGGAAGCAGTCCACCCAGCGCCTGCGCAGGGGGCTGCCTGCCCTCCTGCGTGCCCGCCGGGGTTCAGTG  
CTCGCCAAGGAGCTCGAGGCGTTCAGGGAGGCCAAACGTACCCGTCCCCTGATTGCTCTACCCACCCAAGACCCC  
GCCCACGGGGGCGCCCCCAGAGATGGCCAGCAATCGGAAGTGAGCAAACTGCCGCAAGTCTGCAGCCCGGGC  
CCACCATCCTGCAGCCTCCTCCTGACCACGGACGTTTCCATCAGGTTCCATCCCGAAAATCTCTCGGTTCCACGT  
CCCCCTGGGGCTTCTCCTGACCCAGTCCCCGTGCCCCGCTCCCCGAAACAGGCTACTCTCCTCGGCCCCCTCCA  
TCGGGCTGAGGAAGCACAGCAGCATCTTCAAACATGTACAAAATCGATTGGCTTTAAACACCCTTCACATACCCT  
CCCCC

3386/6881

**FIGURE 3121**

MGIPMGKSMVLVLLTFLAFASCCIAAYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGIVEECCFRSC  
DLALLETYCATPAKSERDVSTPPTVLPDNFPRIYPVGKFFQYDTWKQSTQRLRRGLPALLRARRGHVLAKELEAFR  
EAKRHRPLIALPTQDPAHGGAPPEMASNRK

3387/6881  
**FIGURE 3122**

CATACATGAACACAGCTCACAGCACACAAACACGCAGCCCGACTAGCAGTCTAGAGGCCTGAGGCTTCTGGGTCC  
TGGTGACGGGGCTGGCATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCCTCGGCAAGC  
GCCCTGTGAGTGGGCCATTGGAACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGGAACCCACAT  
TGGCCTGAGATCCAAAACGCTTCGAGGCACCCCAAATTACCTGCCCATTTCGTCAGGACACCCACCCACCCAGTGT  
TATATTCTGCCTCGCCGGAGTGGGTGTTCCCGGGGGCACTTGCCGACCAGCCCTTGCGTCCCCAGGTTTGCAGC  
TCTCCCCTGGGCCACTAACCATCCTGGCCCGGGCTGCCTGTCTGACCTCCGTGCCTTAGTCGTGGCTCTCCATCTT  
GTCTCCTCCCCGTGTCCCAATGTCTTCAGTGGGGGGCCCC



3388/6881  
**FIGURE 3123**

· MTPGVVHASPPQSQRVPRQAPCEWAI RNIGQKPKEPNCHNCGTHIGLR SKTLRGTPNYLP IRQDTHPPSVIFCLA  
GVGVPGGTCRPAPCVPRFAALPWATNHPGPGCLSDLRA

3389/6881  
**FIGURE 3124**

CCAAATTAAACCCCCCCCCCATGTAACAGGGGGGCAGTGACAAAAGCAAGAACGCACGAAGCCAGCCTGGAGACC  
ACCACGTCCTGCCCCCGCCATTTATCGCCCTGATTGGATTTTGTTCATCTGTCCCTGTTGCTTGGGTTGAG  
TTGAGGGTGGAGCCTCCTGGGGGGCACTGGCCACTGAGCCCCCTTGGAGAAGTCAGAGGGGAGTGGAGAAGGCCA  
CTGTCCGGCCTGGCTTCTGGGGACAGTGGCTGGTCCCCAGAAGTCCTGAGGGCGGAGGGGGGGGTGGGCAGGGT  
CTCCTCAGGTGTCAGGAGGGTGCTCGGAGGCCACAGGAGGGGGCTCCTGGCTGGCCTGAGGCTGGCCGGAGGGGA  
AGGGGCTAGCAGGTGTGTAAACAGAGGGTTCCATCAGGCTGGGGCAGGGTGGCCGCCTTCCGCACACTTGAGGAA  
CGGCGGGTCTGAGCCACAGAGCAGGAGAGCTGCCAGGTCTGCCCATCGACCAGGTGCTTGGGCCCCGGAGCCC  
ACGGGTCTGGTGATGCCATAGCAGCCACCACCGCGCGCCTAGGGCTGCGGCAGGGACTCGGCCTCTGGGAGGTT  
TACCTCGCCCCACTTGTGCCCCAGCTCAGCCCCCTGCACGCAGCCGACTAGCAGTCTAGAGGCCTGAGGCT  
TCTGGGTCTGTGACGGGGCTGGCATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCC  
TCGGCAAGCGCCCTGTGAGTGGGCCATTTCGGAACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGG  
AACCACATTGGCCTGAGCCACCCAGTGTTATATTCTGCCTCGCCGGAGTGGGTGTTCCCGGGGGCACTTGCCG  
ACCAGCCCCCTTGCCTCCCCAGGTTTGCAGCTCTCCCTGGGCCACTAACCATCCTGGCCCCGGGCTGCCTGTCTGA  
CCTCCGTGCCTAGTCGTGGCTCTCCATCTTGTCTCCTCCCCGTGTCCCCAATGTCTTCAGTGGGGGGCCCCCTCT  
TGGGTCCCCT

3390/6881  
**FIGURE 3125**

CAGGAGGGTGCTCGGAGGCCACAGGAGGGGGCTCCTGGCTGGCCTGAGGCTGGCCGGAGGGGAAGGGGCTAGCAG  
GTGTGTAAACAGAGGGTTCCATCGACCAGGTTGCTTGGGCCCCGGAGCCACGGGTCTGGTGATGCCATAGCAGC  
CACCACCGCGGCGCCTAGGGCTGCGGCAGGGACTCGGCCTCTGGGAGGTTTACCTCGCCCCCACTTGTGCCCCA  
GCTCAGCCCCCTGCACGCAGCCGACTAGCAGTCTAGAGGCCTGAGGCTTCTGGGTCTGGTGACGGGGCTGGC  
ATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCCTCGGCAAGCGCCCTGTGAGTGGGCC  
ATTGGAACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGGAACCCACATTGGCCTGAGATCCAAA  
ACGCTTCGAGGCACCCCAAATTACCTGCCATTTCGTCAGGACACCCACCCACCCAGTGTTATATTCTGCCTCGCC  
GGAGTGGGTGTTCCCGGGGGCACTTGCCGACCAGCCCTTGCGTCCCCAGGTTTGCAGCTCTCCCTGGGCCACT  
AACCATCCTGGCCCGGGCTGCCTGTCTGACCTCCGTGCCTAGTCGTGGCTCTCCATCTTGTCTCCTCCCGTGTG  
CCCAATGTCTTCAGTGGGGGGCCCCCTCTTGGGTCCC

3391/6881  
**FIGURE 3126**

MTPGVVHASPPQSQRVPRQAPCEWAI RNIGQKPKEPNCHNCGTHIGLRSKTLRGTPNYLPIRQDTHPPSVIFCLA  
GVGVPGGTCRPAPCVPRFAALPWATNHPGPGCLSDLRA

3392/6881  
**FIGURE 3127**

AGTGCCTTAGATTCCAGCGAGCTACGCAAGCAATCCTGGCCCAGCCGAGCTTGCTTCCCCAAATCCCGTAATCCT  
TGACCTTATTCCCCAAAGAAGCGGCCTCCCGGAAGGAGCGCCCTGGCGGAGAAGACTCGAACGGCTCCCACAG  
CCGGGCGTTGGGGGAAAGGCATGAAGAACTCTTGACTGACAGAAACGGAGGGTGTGTCCAAAGTTTTGAGGACGG  
CCGAGCGGCGCTCCAAAACCCGTCTCACAGCCTCGCCCCGTTCGCCTCAGCTACAACAAATCATCGTCAACCTG  
TTCCACCTTCTCCAGTCTGGTAGCAAAAAGGGGTGTCTCAGGCCACTCTTCACCTCCACCATGAGCCTGGACATC  
CAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCTGCTCCAGCAGTGC  
CAAGTGGTCAGGCTGGACGACTGTGGCCTCAGGAAGCACGGTGCAAGGACATCAGCTCTGCACCTCGAGTCAAC  
CCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCGATGTCGGCGTGCAATTGCGTGCTCCAGGGCCTG  
CAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCAGAACTGCTGCCTGACGGGGGCCGGCTGCGGGGTCTTG  
TCCAGCACACTACGCACCTGCCCCACCTGCAAGGAGCTGCACCTCAGCGACAACCTCTTGGGGGATGCGGGCCTG  
CAGCTGCTCTGCGAAGGACTCCTGGACCCCAAGTCCCGCTGGAAAAGCTGCAGCTGGAGTATTGCAGCCTCTCG  
GCTGCCAGCTGCGAGCCCTGGCCTCCGTGCTCAGGGCCAAGCCGGAATTCAAGGAGCTCACGGTTAGCAACAAC  
GACATCAATGAGGCTGGCGTCCGTGTGCTGTGCCAGGGCCTGAAGGACTCCCCCTGCCAGCTGGAGGCGCTCAAG  
CTGGAGAGCTGCGGTGTGACATCAGACAACGCCGGACCTGTGCGGCATTGTGGCCTCCAAGGCCTCGCTGCGG  
GAGCTGGCCCTGGGCAGCAACAAGCTGGGTGATGTGGGCATGGCGGAGCTGTGCCAGGGCTGCTCCACCCAGC  
TCCAGGCTCAGGACCTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGGATCTGTGCCGTGTCTCTC  
AGGGCCAAGGAGAGCCTGAAGGAGCTCAGCCTGCCCCGCAACGAGCTGGGGGATGAGGGTGCCCGACTGCTGTGT  
GAGACCTGCTGGAACCTGGCTGCCAGCTGGAGTCTGCTGTGGGTGAAGTCCTGCAGCTTCACAGCCGCTGCTGC  
TCCCACTTCAGCTCAGTGTGCCCCAGAACAGTTTTCTCTGGAGCTACAGATAAGCAACAACAGGCTGGAGGAT  
GCGGGCGTGCGGGAGCTGTGCCAGGGCCTGGGCCAGCCTGGCTCTGTGCTGCGGGTGTCTGTTGGCCGACTGC  
GATGTGAGTGACAGCAGCTGCAGCAGCCTCGCCGCAACCCTGTTGGCCAACCACAGCCTGCGTGAGCTGGACCTC  
AGCAACAACCTGCCTGGGGGACGCCGGCATCTGCAGCTGGTGGAGAGCGTCCGGCAGCCGGGGCTGCCTCCTGGAG  
CAGCTGGTCTGTACGACATTACTGGTCTGAGGAGATGGAGGACCGGCTGCAGGCCCTGGAGAAGGACAAGCCA  
TCCCTGAGGGTCACTCTCTGAGGCTCTTCTGCTGCTGCTCTCCCTGGACGACCGGCTCGAGGCAACCCTGGGG  
CCCACAGCCCTGCCATGCTCTCACCTGCATATCCTAGGTTTGAAGAGAAACGCTCAGATCCGCTTATTTCTG  
CCAGTATATTTTGGACACTTTATAATCATTAAAGCACTTTCTTGGC

3393/6881  
**FIGURE 3128**

MSLDIQSLDIQCEELSDARWAE LLP LLQQCQVVRLLDDCGLTEARCKDISSALRVNPALAE LNRSNELGDVG VHC  
VLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLR TLPTLQELHLSDNLLGDAGLQLLCEGLLD POCRLEKLQLE  
YCSLSAASCEPLASVLRAPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCGVTS DNCRDL CGIVAS  
KASLRELALGSNKLGDVGMAELCPGLLHPSSRLRTLWIWECGITAKCGDL CRVLRAKESLKELSLAGNELG DEG  
ARLLCETLLEPGCQLES LWKSCSFTAACCSHFSSVLAQNRFLLELQISNNRLEDAGVREL CQGLGQPGSVLRVL  
WLADCDVSDSSCSSLAATLLANHSLRELDLSNNCLGDAGILQLVESVRQPGCLLEQLVLYDIWSEEMEDRLQAL  
EKDKPSLRVIS

3394/6881  
**FIGURE 3129**

CACCCACCCACCCCTCCCCGATTGTGGCATCAGTGCTGCTGCTTCCAGGGAGCCTTCCTGGCCATCCAAGCCT  
CCTCTCCAGGTTCTGCTGCCCTGCTGTAGTCCCCAGGCCAGTGCTTGGCAGGTGCTCAGGGAATGTATCCACCAACC  
AAGGTTTGGGGTGGCTGTCTCTGCCTGACCACTTCCCCAGGCCCTGGCGGGTACCTGAGCTGTGCTCTCAGGG  
CCTCAGGAACCTCCTTCCATATTCAGGGCCTGTGCCTGGGGAGGCTTCAGGGTGTAGCAGCTGTGCCATCCAG  
GCTGACCCACCCAGCTTGCCIGGTAGCCAGCCTCTGGGCTAGTGTGCCGTGGGGCAGGGGATGTGCTGTAGCCT  
GGTGAGAGTCCCCAACCCAGAAGGGGGCCATGGAAGCTGACACCCCAAGTGGCCGCCCCCTGCTCTGTCTTG  
CTTCGGACACTGTGGCCGGGTCCAGGATCCTGGCATCCTGGGAGGTCTCTGGCTTTGTGGGCAGCCTGCCTGGCC  
CGCACAGTCTGCCTGTCTGAGGGTGAGACACAGGTCAAGCCCACAGACCCCTTGCTCCCCCTGCTGGGGCCTCC  
AGGCTCACAGACCACCCACCCCTACCCTGTCTTGCCCAAGCAAATGAGAGGCAGGGGCTTCCCGGGCTGCTGCT  
GTCCCGCCCTCTGTGGGGCAGGAGGAGGTGCCACAGAGGCTGGGTGGTGATAGCCAGGAGATGGGCTGGCATCT  
GCATTACCAAGCTCTGCTGCCCATGGTGGCCTTTCTGGGGGTGGGTGATGGTCCCTGCCCCCTGCCCCACCCGT  
GATGTCTGCTCCAGAGACAAAGGTGGGGAGGGTGTGAAGAGGAAGTGTTCGCCAGGGAGAGGCTGCGGCTCCT  
CCTGAAACATCAGCCCTGTGGGTCTGTTCGAGAATCTCCGGCTGTGAAACTGTGAGGGGATTGCGCCAGAC  
GTCTCTTCCCTCTGCCTCCCACCCAGGCCACTCTTACCTCCACCATGAGCCTGGACATCCAGAGCCTGGACAT  
CCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCTGCTCCAGCAGTGCCAAGTGGTCAGGTA  
CGCTTGCTCTCGGGGTGGCCTTGGGGTGTGGTGGGGCAGGCTGGCGGGTGGCGGCTCCCTCTGAAGGGTGCATT  
GCTCTGGAACGCCTTGTTCGTGGACATGAAGTATGAATTCGTGTCAGCTACCACGTGCATGAGATGTGATTCTTG  
TGTTCTTTTTGACAATTTAGGAATGTAAAACCCATTCCAGGCTCATGCAGCATGGGCTGAGGTGGGCGGGCCGA  
GGTGGGCGGCCACTGGCCAGTGGGTCTCTGGCTCCGGTGTCTCAGCTCCTCTCCCTCCCTTGGAGACACGAGGGC  
AGGACACAGCTTGGGTCCCCTCCGTGAGCCTCCATGGGGCGCTGCTTGCTCCCTGCCAAGCTGGGGGCTGGGAGTC  
CTCGGCCCTCGAGGTCTCACAACCCAGCAGCTTACAAAGCAGGACACGAGTGCCTGGGTGGGCCGCATCTTTT  
CTCTTTTACCTGGTGATTTCAAGTAGTGTGAGGTTTGGGAGGAGTTACGAGGACCGGACGGGGCTCCCTGGTG  
AGGTGGTCTGTGTACCTGCGGACGCTAGCTCTGGCCCAGCACCTCCAGGCAGGGTCTGCTTTCCGCCCTGCCC  
TTTTCGTCTTCTCCTCAGTGGTCCAGGATTGCGTGGCCCTCAGCCCTCTGTCTCCTTAGCCCTCTCCCGTCTGTGAC  
TGTCCCTCGTCTCTCTGGGTTCCTGGTGGTCTGAGGGTCTGGCCAGGCTCCTGCAGGACGCTCCTGTGTGGGGC  
TTGTCTGGTGGTTTCTTGTGGTTGAAGTCTTACAGTTTTGGCAGGAATGCAGGGAGATGCCGTGGGGCCTGCCAG  
GAGCGTCTGTACAGGCGCCGTCTGCCACCCCTCTCACTGTGACGCCACTGCCTTTCTCCTGTGACTGATCAG  
TGCCTTCGAGAGATACTTTAAATTCTTTTTATTTTTAGAGACAGGGCATTGCTCTGTACCCAGGCTGGAGTGGC  
TCCCTCATGGCTTATGCGGCTCAACCTCCTGGGCTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA  
TTATGGGCATGCGCCACCACGCCCCGGCTACTTTTGTATTTTAGTAAAGACGGGGTTTCTCCATGTGTGGTCAGGT  
TGGTCTTGAACCTCCCGACCTCAGGTGATCTGCCTGCCTCGGCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCA  
CCGCGCCTGGCC

3395/6881  
**FIGURE 3130**

MSLDIQSLHIQCDDLTDARWAELLLLLHNCQVDRLLDDCGLTEARCKDISSALRVNPALAE LNRSNELGDVGVHC  
VLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRITLPTLQELHLSDNLLGDAGLQLLCEGLLDPQCRLEKLQLE  
YCSLSAASCEPLASVLRAPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCGVTSDNCRDL CGIVAS  
KASLRELALGSNKLACTTFTGLRRWRTGCRPWRTSHP



3395/6881  
**FIGURE 3131A**

AGAGTGAAGCCACCACTCGCTCTCGAATCGCGCGGACGCTGGGCCTGCGCAGGCCTGTTACAGCAGCTGCATCC  
CGTCAGTGTGAAGCCAGTGGAGCCCTCTTTGGGGCTGCTGAGAGCGGATATTGGAGCTGCCTCTCTGTCTCTGT  
TTGGAGATCCTATGAGCTGGATCCCTTCGACAGCAGTGAAGAGCTTTCTGCAAACCTCTTTCCCTCTGAGTG  
CCAAGAGACGGGCTCTGTCCCGGTGAGCCCTGCAGTCCACCAGCCCGTGGCCAGGCCCGTCTCCGTGGGGCTTT  
CCAGGAGGCGCTCCCTGCCGCGGTGCCAGAGCCAGACTTGGAGGAGGAGCCAGTGCCTGACCTGCTGGGCAGCA  
TCCTGTGCGGCCAGAGCCTCCTGATGCTGGGCAGCAGTGTATCATCATCCACCGCAGCGCTCCCTCAGCGCCA  
AGAGGGCGGGCTCCAGTTTCTTTTTCAGCGAAACTCAGGCAGTCTGTCCAGAGGGGAAGAAGGATTCAAGGGCTGCC  
TGCAGCCCCGAGCACTGCCCTCCGGGAGCCCCGGCCCAAGGCCCGTCAAGAAACAGGCCACAGAGCACAGGGCTCA  
GCTGTCAAGGCAGGTCCCGCACCCCCGCCCCGACCGCGGGGGCGCCTGTGAGGCTGGACTTGCCAGCAGCCCTG  
GGGCGGTTTCAGGCTCGGAACCTTGTCAAATGGGAGTGTGCCTGGCTTCAGACAGAGCCACAGCCCTGGTTCAACG  
GCACCAACAAGCACACCTTGCCCTTGCTCTGCGCGTCTAAGATCTCAAGCAGAGATTCTAAGCCCCATGTCTC  
GCAGTGTGGTGGCGGGGCTCCCTGAAGCCAGCGCCAGAAGAACAGACATCTCTGAGCTACCCAGGATACCAA  
AGATCAGGAGAGATGACGGTGGTGGCAGACGGGATGCGGCCCCGGGCCACGGGCAGAGCATTGAGATCCCCAGTG  
CCTGCATCAGCCGACTGACTGGCAGGGAGGGCACCGGGCAGCCAGGGCGAGGCACACGGGCAGAGAGCGAGGCCA  
GCAGCAGGGTGGCCCGGGAGCCCGGGTGCACACGGGCAGCTCCCGGCCCCAGCCCCAGCTCCCATGGCAGTT  
TGGCCCCACTGGGACCATCAAGAGGGAAGGGGTGCGGTGACCTTTGAGAGCTTCCGGATCAATATTCTTGAA  
ACATGGCACATTCCAGCCAGCTCTCCAGCCCTGGCTTCTGTAACACGTTCCGGCCTGTGGACGATAAGGAGCAGA  
GGAAGGAGAACCCCTCACCCCTCTTCTCCATCAAGAAGACGAAGCAGCTGCGGAGCGAGGTCTACGACCCATCCG  
ACCCACCGGCTCCGACTCCAGCGCCCTTGGCAGCAGCCCCGAGAGGTCTGGCCCCGGCTCCTGCCCTCTGAGA  
TCACACGAACCATCTCCATCAACAGCCGAAGGCCAGACGGTGCAGGCTGTGCGCTGCGTCACCTCCTACACGG  
TGGAGAGCATCTTTGGTACAGAGCCCCGAACCCCTCTCGGACCGTCTCCGCCATGTCCAAGCTCCGGGGTGCAG  
TGGCTGCGGAGGGGGCTCTGACACGGAGCGAGAGGAGCCACAGAGAGCCAGGGCCTGGCTGCCCGGCTGCGGA  
GGCCATCCCCCCCAGAGCCCTGGGATGAGGAGGATGGGGCGTCTTGACAGCCTTCTTTGGCTCTGAGGAGCGGA  
CGGTGACCTGTGTGACTGTCTGTGGAGCCGGAAGCCCCACCCAGCCCGGACGTGCTGCAGGCTGCCACCCACAGAG  
TCGTGGAGCTCAGGCCCCCTTCCCGGTCCCGCTCCACATCCAGCTCCCGCAGCAGGAAGAAGGCCAAGAGGAAGA  
GGGTGTCCAGGGAGCACGGACGGACGCGCTCTGGGACGCGCTCTGAATCCAGGGACAGGAGCTCGAGGTACGCGT  
CACCATCAGTGGGTGAGGAGCGCCCCAGGAGGCAGCGGTCCAAGGCCAAGAGCCGGCGGTCTCCAGTGACCGCT  
CCAGCAGCCGAGAGCGAGCTAAGAGGAAGAAAGCCAAGGACAAGAGCAGGGAGCACAGGCGGGGCCCTGGGGCC  
ACAGCCGGAGGACGTCCCGGTGCGGTCGGGGAGCCCTGGCAGCTCTTCTATGAGCACTATGAGAGTAGGAAGA  
AGAAGAAAAGGAGATCAGCGTCCAGACCTCGGGGAAGGGAGTGTCCCCCACCAGCAGCCTGGAGAGGCTCTGCA  
GGCACAAGCATCAGCGGGAACGCAGCCACGAGCGGCCAGACAGGAAGGAGAGTGTGGCGTGGCCCCGAGACCGGA  
GGAAGCGGAGGTCCCGGTCCCAAGCTCGGAGCACAGGGCACGGGAGCACAGGCGGCCTCGGTCCCGTGAGAGT  
GGCCGAGACCCGTTCCCATTTCCCAAGAGAGGAAGGGGCTGTGAGGGAGGCTTCCCAAGCGCCCTTGACAGG  
GGGAGCCAGGGCGGGAAGACCTCCCCACCAGGTTGCCAGCCTTGGGGGAAGCACATGTCTCGCCGGAGGTGGCTA  
CGGCCGACAAGGCCCCCTGCAGGCTCCCCCTGTCTGGAGGTGGCAGCTGAGTGTGAGCCGGACGACCTGGACC  
TGGATTATGGCGACTCCGTGGAGGCCGGACAGCTTTTGATGATTTCTCAAGCGACGCGTTTTCATCCAGCTCG  
ATGACATGAGCTCGCCACCTTCTCCCGAAAGCACAGACTCTTCCCGGAGCGAGACTTCCCACTGAAGCCTGCGT  
TGCCCCCAGCCAGCCTGGCCGTGGCCGCCATCCAGAGGGAGGTGTCAATTGATGCACGATGAAGACCCTTCGCAGC  
CCCCACCCCTGCCAGAGGGCACCCAGGAGCCACATTTGCTCAGGCCGGACGCGGTGAGAAGGCTGAGGCACCCA  
GTTCCCCGGATGTGGCGCCTGCGGGGAAGGAAGACAGCCCTCTGCGAGTGGGAGGGTACAGGAGGCAGCCCGGC  
CTGAGGAGGTGGTTTCGACAGACCCCTGCTGCGGTCCAGAGCCCTGGTGAAGCGGGTCACTGGAACCTGCAGG  
AGTCGGAGAGCAGCGCCCCGCGGAGGACAGAGCCCCCGGGCACCCTTACAGGCCACAGAAGCCCCGAGAAG  
GAGCCTGGGACATGGAGGATGTGGCCCCACAGGGGTGAGGCAGGTGTTCTCCGAGCTGCCCTTTCCAGTACG  
TGCTTCCGGAACCCGGGTTCACAGACAGACCCCTCTCAGGTTTACAGCCCCGGCTGCCGCTGCCCGGGCCC  
AGCCCTCAAGCATCCACCCCTGCGCACTGGTCAGCCAGCCACGGTCCAGTTCATCCTTCAGGGGAGCTGCCGC  
TAGTGGGCTGTGGGGCAGCACAGACCTGGCCCCAGTGCCCGCTGCCCTGACCCACGCTCAGAGCCAGCCAGTC  
AAGCCACTGCAGCCAGCAACTCGGAGGAGAAGACCCCGGCCCCCAGGCTAGCTGCGGAGAAAACCAAGAAGGAGG  
AGTACATGAAGAAGCTGCACATGCAGGAGCGTGTGTGGAGGAGGTGAAGCTGGCCATCAAGCCCTTCTACCAGA

3397/6881  
**FIGURE 3131B**

AGAGGGAGGTGACCAAGGAGGAGTACAAGGACATCCTGCGCAAGGCCGTGCAGAAGATCTGCCACAGCAAGAGTG  
GAGAGATCAACCCCGTGAAGGTGGCCAACCTGGTGAAGGCGTACGTGGACAAGTACAGGCACATGCGCAGGCACA  
AGAAACCAGAGGCCGGGGAGGAGCCGCCACGCAGGGGGCCGAGGGCTGAGGCCAGGCAATCACGGGCTATGCCC  
GGGGAGCTGTCGGGAGTGGCGGGAATCGGGGCCATGCCCGGGAGCTGTCGGGAGTGGCGGGAATCGGGGCCATG  
CCCGGGGAGCTGTCGGGAGTGGCGGGAATGGGGGGCATCACCATGCCTGCCGTGGGGTTCCTGCGCTGACACCT  
GGTCTGTGCACCTGTGTTGCTCACAGTTGAAACTGGACACTTTTGTATGTATATTATAGAGACACTGTTTCCAT  
TCTAATTTATCAAAAATGGATTATCTTTAGAAACCTCTTGATTGACTTACTACTTGAAGATAAAGCACTTGGTG  
ATCAAGAGGGGCTCCTGGTGGGTGGCGCGTCCTTGATAAATCTCTAGGTGGCCTCCCGCCAACAGCTGCTGTGT  
ACCTTTGGCTCTGAATTAGGAATATCTTTACTTTCTCTTTCC

3398/6881  
**FIGURE 3132**

MDDDSLDELVARSPGPDGHPQVGPADPAGDFEESSVGS SSGDSGDDSDSEHGDGTDGEDEGASEEEDLEDRSGSED  
SEDDGETLLEVAGTQGKLEAAGSFNSDDDAESCPICLNAFRDQAVGTPENCAHYFCLDCIVEWSKNANSCPVDR  
LFCICICIRAQFGGKILRKIPVENTKASEEEEEPTFCEVCGRSDREDRLLLCDGCDAGYHMECLDPPLQEVVPVDEW  
FCPECAAPGVVLAADAGPVSEEEVSLLLADVPTTSRLRPRAGRTRAIARTRQSERVRATVNRNRISTARRVQHT  
PGRLGSSLLDEAIEAVATGLSTAVYQRPLTPRTPARRKRKTRRRKKVPGRKKTSPGPSAKSKSSATRSKKRQHRV  
KKRRGKKVKSEATTRSRIARTLGLRRPVHSSCIPSVLKPVEPSLGLLRADIGAASLSLFGDPYELDPFDSSEELS  
ANPLSPLSAKRRLSRSALQSHQPVARPVSVGLSRRRLPAAVPEPDLEEEVPDLLGSILSGQSLMLGSSDVII  
HRDGSLSAKRAAPVSFQRNSGSLSRGEEGFKGCLQPRALPSGSPAQGPSGNRPQSTGLSCQGRSRTPARTAGAPV  
RLDLPAAPGAVQARNLSNGSVPGFRQSHSPWFNGTNKHTLPLASAASKISSRDSKPPCRSVVPGPPLKPAPRRTD  
ISELPRIPIKIRDDGGGRRDAAPAHGQSIEIPSACISRLTGREGTQPGRGTRAESEASSRVPREPGVHTGSSRP  
PAPSSHGSLAPLPGSRGKGVGSTFESFRINIPGNMAHSSQLSSPGFCNTFRPVDDKEQRKENPSPLFSIKKTKQL  
RSEVYDPSDPTGSDSSAPGSSPERSGPGLLPSEITRTISIKQPEGPDGAGCALRHAPTLVESIFGTEPEPPLGPS  
SAMSKLRGAVAAEGASDTEREPTESQGLAARLRSPPEPWDEEDGASCSTFFGSEERTVTCVTVEPEAPPSP  
DVLQAATHRVVELRPPSRSRSTSSRSRKKAKRKRVSREHGRTRSGTRSESRRDRSSRSASP SVGEERPRRQSKA  
KSRRSSSDRSSRERAKRKKAKDKSREHRRGPWGHSSRTSRSRSGSPGSSSYEHYESRKKKKRRSASRPRGRECS  
PTSSLERLCRHKHQERSHERPDRKESVAVPRDRRKRSSRSPSEHRRAREHRRPRSREKWPQTRSHSPERKGAVR  
EASPAPLAQGEPEGREDLPTRLPALGEAHVSPEVATADKAPLQAPPVLEVAACEPDLDLDYGDSVEAGHVFD  
SSDAVFIQLDDMSPPSPESTDSSPERDFPLKPALPPASLAVAAIQREVSLMHDEDPSPQPPPLPEGTQEPHLLRP  
DAAEKAEAPSSPDVAPAGKEDSPSASGRVQEAARPEEVVSQTPLLRSRALVKRVTNLQESSESSAPAEDRAPRAP  
LHRPQKPREGAWDMEDVAPTGVRAQAFSELFPFPHVLEPEGFPDTPSQVYSPGLPPAPAQPSIIPPCALVSQPTV  
QFILQGSLLVGCAGAAQTLAPVPAALTPASEPASQATAASNSEEKTPAPRLAAEKTKEEYMKKLHMQERAVEEV  
KLAIKPFYQKREVTKEEYKDILRKAVQKICHSKSGEINPVKVANLVKAYVNKYRHMRRHKKEPEAGEEPPTQGAEG

[illegible]

3400/6881

**FIGURE 3134**

MQPSSLLPLALCLLAAPASALVRIPLHKFTSIRRTMSEVGGSVEDLIAKGPVSKYSQAVPAVTEGPIPEVLKNYM  
DAQYYGEIGIGTPPQCFTVVFDTGSSNLWVPSIHCKLLDIACWIHHKYNSDKSSTYVKNGTSFDIHYGSGSLSGY  
LSQDTVSVPCQSASSASALGGVKVERQVFGEATKQPGITFIAAKFDGILGMAYPRISVNNVLPVFDNLMQQKLVD  
QNIFSFYLSRDPDAQPGGELMLGGTDSKYYKGSLSYLNVTRKAYWQVHLDQVEVASGLTLCKEGCEAIVDTGTSL  
MVGPDDEVRELQKAIGAVPLIQGEYMIPCEKVSTLPAILTKLGGKGYKLSPEDYTLKVSQAGKTLCLSGFMGMDI  
PPPSGPLWILGDVFIGRYYTVFDRDNNRVGFAEAARL

3401/6881  
**FIGURE 3135**

GCGCGCAACGGCGGCGACGGCGGCGACCCACCGCACATCCTGCCAGGCCTCCGGCGCCCAGGGCGCACGGCGCG  
CCCCCGTGCCGGCGGCCCCCTGCGCCCATTCTTGCGGCCCCCGCCGGTCGGCCCCGCCAGGCCCCCTTTGCCGGCC  
ACCAGCCAGGCCCCGCGCCGGCCCCGCCCGCCCGCCAGGACCGGCCCGCGCCCCGCGAGGCCGCCCGCCCGCGC  
CGCCATGGGAGTGGAGGGCTGCACCAAGTGCATCAAGTACCTGCTCTTCGTCTTCAATTTTCGTCTTCTGGCTGGC  
TGGAGGCGTGATCCTGGGTGTGGCCCTGTGGCTCCGCCATGACCCGAGACCACCAACCTCCTGTATCTGGAGCT  
GGGAGACAAGCCCGCGCCCAACACCTTCTATGTAGGCATCTACATCCTCATCGCTGTGGGCGCTGTATGATGTT  
CGTTGGCTTCTTGGGCTGTACGGGGCCATCCAGGAATCCCAGTGCCTGCTGGGGACGTTCTTCACCTGCCTGGT  
CATCCTGTTTTGCCTGTGAGGTGGCCGCCGGCATCTGGGGCTTTGTCAACAAGGACCAGATCGCCAAGGATGTGAA  
GCAGTTCTATGACCAGGCCCTACAGCAGGCCGTGGTGGATGATGACGCCAACAACGCCAAGGCTGTGGTGAAGAC  
CTTCCACGAGACGCTTGACTGCTGTGGCTCCAGCACACTGACTGCTTTGACCACCTCAGTGCTCAAGAACAATTT  
GTGTCCCTCGGGCAGCAACATCATCAGCAACCTCTTCAAGGAGGACTGCCACCAGAAGATCGATGACCTCTTCTC  
CGGGAAGCTGTACCTCATCGGCATTGCTGCCATCGTGGTCGCTGTGATCATGATCTTCGAGATGATCCTGAGCAT  
GGTCTGTGCTGTGGCATCCGGAACAGCTCCGTGTACTGAGGCCCCCGCAGCTCTGGCCACAGGGACCTCTGCAGT  
GCCCCCTAAGTGACCCGGACACTTCCGAGGGGGCCATCACCGCCTGTGTATATAACGTTTCCGGTATTACTCTGC  
TACACGTAGCCTTTTTACTTTTGGGGTTTTGTTTTTGTCTGAACCTTTCCTGTTACCTTTTCAGGGCTGACGTCA  
CATGTAGGTGGCGTGATGAGTGGAGACGGGCCTGGGTCTTGGGGACTGGAGGGCAGGGGTCTTCTGCCCTGGG  
GTCCCAGGGTGCTCTGCCTGCTCAGCCAGGCCTCTCCTGGGAGCCACTCGCCAGAGACTCAGCTTGGCCAACTT  
GGGGGGCTGTGTCCACCCAGCCCGCCCGTCTGTGGGCTGCACAGCTCACCTTGTTCCCTCCTGCCCCGGTTCGA  
GAGCCGAGTCTGTGGGCACTCTCTGCCTTCATGCACCTGTCTTTCTAACACGTCGCCTTCAACTGTAATCACAA  
CATCCTGACTCCGTCATTTAATAAGAAGGAACATCAGGCATGCT

3402/6881  
**FIGURE 3136**

CTTGCTCGCGGAGAGAGGAGCTAGGAGCCTCGGCCAATGGGAGCCGGCGTTGTTGGAGGCCACGGCGGCGCAGCC  
CCAAAGCGAGCGAAGCTAGGGTCGCCGCCACTGCCGCAGGAGGCGTGAGGGGATAAAAAACATTAGATGGCAGAT  
CACAGTTTTTCAGATGGGGTTCCTTCAGATTCCGTGGAAGCTGCTAAAAATGCAAGTAACACAGAAAAGCTCACA  
GATCAGGTGATGCAGAATCCTCGAGTTCTGGCAGCTTTACAGGAGCGACTTGACAATGTCCCTCACACCCCTTCC  
AGCTACATCGAAACTTTTACCTAAAGCAGTAAAAAGAAGATTAAATGCATTGAAACAACCTTCAGGTGAGATGTGCT  
CACATAGAAGCCAAGTTCTATGAAGAGGTACATGACTTGGAAAGAAAGTATGCAGCGCTATACAGCCTCTCTTT  
GACAAGAGAAGAGAATTTATCACCGGCGATGTTGAACCAACAGATGCGGAATCGGAATGGCACAGTGAAAATGAA  
GAGGAAGAGAAAATTGGCTGGAGACATGAAAAGTAAAGTAGTCGTACAGAAAAGCAGCGGCAACGGCTGAAGAG  
CCAGATCCCAAAGGAATTCAGAGTTCTGGTTTACCATCTTCAGAAATGTGGACATGCTGAGTGAATTAGTCCAG  
GAATATGATGAACCAATCTTGAAACACCTGCAGGATATTAAAGTGAAATTTTCTGACCCTGGACAGCCTATGTCT  
TTTGTGTTAGAGTTCCACTTTGAACCCAACGACTACTTTACCAACTCAGTCCTGACAAAAACCTACAAGATGAAA  
TCAGAACCAGATAAGGCTGATCCCTTTTCCCTTTGAAGGTCCTGAGATTGTGGACTGTGACGGGTGTACTATTGAC  
TGGAAGAAAAGGAAAGAATGTTACTGTCAAAACCATCAAGAAAAAGCAGAAGCATAAGGGTCGAGGCACTGTTAGA  
ACAATTACGAAACAAGTACCCAATGAGTCCTTTTCAACTTCTTCAATCCATTGAAAGCATCCGGGGATGGAGAA  
TCACTGGATGAAGATTCTGAATTCACATTAGCCTCTGATTTTGAAATTGGACACTTTTCCGTGAGCGGATAGTC  
CCGCGGGCTGTGCTGTACTTCACTGGGGAGGCCATAGAAGATGATGACAATTTTGAAGAAGGTGAAGAAGGAGAA  
GAGGAGGAATTAGAAGGTGACGAGGAGGGAGAAGACGAGGATGATGCGGAAATTAACCCCAAGGTGTAATTTTGT  
TCTGTTAATCATTCATACGTTTCTAGAAGGAACCCAGCCAGCCGGCGGAATGCAAGCAGCAGTAGGAAGCGGAGG  
CGGGTGCTTGGCAGACCGGCTGTGGGACTCCAGGCCTGTGGGCGGGGCTCGGTCTTGGCCGAGCACAAATCCC  
GTGGACAGAGCTTACTCCATCTAACTCGTTTTCAAGTGCATGATTTTCACTTTCACTTTTCTTTTCTTTATTA  
TTTTGCTTAACTTGTACAGTGGCAACTGAAATGCATTTAGAAATAGGAGGTTTCGTCCAGCACCTCTGCAGCC  
TTGGTGCTGTAGCTCTGGAATTTCCCTGGGCTTTCCCTGTGGGAGGGCCCTGTAGACCACATCAGGGTGGGGTG  
GGGGTCACTTGGCAAAAAGGGCCGAGGTCTGGTGATGTGGTTCCAGGATCTGGAACCTCTCCACCCCTCTGTC  
AGTTGGACTGAATTTCTCCCTTTCATCCGAAGAAACCCACTTGCTGTTTCCAGCCGCTGAATCTGCTGAGTGTGC  
AGCCTGCATCACCTGCTGTATGCCGATCATCTCAGAAAGGGCTGTGTAGAGTAGGGCCCTGTTCTCCTTAGGATG  
TTGCTTCTTCATTTTTTTTTTTTTTTTAGGGGTGGGTGAGGGTTGTGACACACCAGCCAGGTGAGAGCTGCTGCG  
GGTACCTCATATTTATTTATCCCTTCTTGCTGTGAGGACTGCGGCTTTTCGCTGTGGCTCGTCCTTAACGTTT  
CTGAACCACCTTGGTGCCCTGAGCAGGAAGATGTGCCACTTCTAGCAGGCGCAAGGCCTGTGCGGAAGAAACGC  
CGCTCCCTGCCACCAGGGCTGAAGATGCGAGCCCGTCTCATGACGCAGGCGCCACCCTGCTGCCGAGCCGGGC  
TTCGGCAGTCTTCTCCACTGAGGGACTGGGCTGGGAAGTCTGCGTTTCAGTGGAGCGTATGAGCGTCAAGTCCT  
GCTTTCTCAGTAGCCCCATTGCGGGGCCCCACCATTATCTGTCTGAAGTCTTGGGTTTGGTGTGACCGCTTG  
GCGGCTGGTGGTGGGTTTTCAAGTGGGTGACGGCGCTCTCCGGCAGCCGGGATGGCCGTGTCCGCACTGACC  
AGGCCTGTGGAGAGTGCTCGGCCTAACCTTAGAACACATTTGTAAGTGAATACAGTGTTCATTTGTACAGAA  
TAGTTAGAATATCTATTAAAGTGGTGAAACATTG

3403/6881  
**FIGURE 3137**

CCGGGGCGCGGTTGCATCAGATTCTAGGAAGTGTCTGTAGCCGCAGCTGCGGGTCCGGGATTCCCAGCCATGGC  
AGATTCCCTCCGGGCAGCAGGGCAAAGGCCGGCGTGTGCAGCCCCAGTGGTCCCTCCTGCTGGGACCCAGCCATG  
CAGACTCCACCTTTACAACAGCCTCACCAGGAACAAGGAAGTGTTCATACCTCAAGATGGGAAAAAGGTGACGTG  
GTATTGCTGTGGGCCAACCGTCTATGACGCATCTCACATGGGGCAGCCAGGTCTACATCTCTTTTGATATCTT  
GAGAAGAGTGTGAAGGATTACTTCAAATTTGATGTCTTTTATTGCATGAACATTACGGATATTGATGACAAGAT  
CATCAAGAGGGCCCGGCAGAACACCTGTTTCGAGCAGTATCGGGAGAAGAGGCCTGAAGCGGCACAGCTCTTGGA  
GGATGTTTCAGGCCGCCCTGAAGCCATTTTCAGTAAATTAATGAGACCACGGATCCCGATAAAAAAGCAGATGCT  
CGAACGGATTACGACGCAGTGCAGCTTGCCACAGAGCCACTTGAGAAAGCTGTGCAGTCCAGACTCACGGGAGA  
GGAAGTCAACAGCTGTGTGGAGGTGTTGCTGGAAGAAGCCAAGGATTTGCTCTCTGACTGGCTGGATTCTACACT  
TGGCTGTGATGTCACTGACAATTCCATCTTCTCCAAGCTGCCCAAGTTCTGGGAGGGGGACTTCCACAGAGACAT  
GGAAGCTCTGAATGTTCTCCCTCCAGATGTCTTAACCCGGGTTAGTGAGTATGTGCCAGAAATTGTGAACTTTGT  
CCAGAAGATTGTGGACAACGGTTACGGCTATGTCTCCAATGGGTCTGTCTACTTTGATACAGCGAAGTTTGCTTC  
TAGCGAGAAGCACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGAGATCAGAAAGCCCTTCAAGAAGGGGAAGG  
TGACCTGAGCATCTCTGCAGACCGCTGAGTGAGAAGCGCTCTCCCAACGACTTTGCCTTATGGAAGGCCCTCTAA  
GCCCCGAGAACCGTCTGGCCGTGCCCTTGGGGAAAGGGTCGTCCGGGCTGGCATAATCGAGTGTCTCGGCCATGGC  
AGGCACCTCCTAGGGGCTTCGATGGACATTACCGGAGGTGGGTTTCGACCTCCGGTTCCCCCACCATGACAATGA  
GCTGGCACAGTCGGAGGCCCTACTTTGAAAACGACTGTCTGGGTCAAGTACTTCTGCACACAGGCCACCTGACCAT  
TGCAGGCTGCAAAATGTCAAAGTCACTAAAAAAGTTCATCACCATTAAAGATGCCTTGAAAAAGCACTCAGCAGC  
GCAGTTGCGGCTGGCCTTCCCTCATGCACTCGTGGGAAGGACACCTGGACTACTCCAGCAACACCATGGAGTCAGC  
GCTTCAATATGAGAAGTTCTTGAATGAGTTTTTCTTAAATGTGAAAGATATCCTTCGCGCTCCTGTTGACATCAC  
TGGTCAGTTTGAGAAGTGGGGAGAAGAAGAAGCAGAACTGAATAAGAACTTTTATGACAAGAAGACAGCAATTCA  
CAAAGCCCTCTGTGACAATGTTGACACCCGCACCGTCAATGGAAGAGATGCGGGCCTTGGTCAGTCAGTGCAACCT  
CTATATGGCAGCCCGAAAGCCGTGAGGAAGAGGCCCAACCAGGCTCTGCTGGAGAACATCGCCCTGTACCTCAC  
CCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCTGGGATTCCCGGTCCGAGGGCCTGGAACCAG  
CCTCAGTCTCGAGGCCACAGTCATGCCCTACCTTCAGGTGTTATCAGAATTCCGAGAAGGAGTGCGGAAGATTGC  
CCGAGAGCAAAAAGTCCCTGAGATTCTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGT  
GCGGTTTGAAGACCACGAAGGACTGCCCACAGTGGTGAACTGGTAGACAGAAACACCTTATTAAGAGAGAGAGA  
AGAAAAGAGACGGGTTGAAGAGGAGAAGAGGAAGAAGAAAGAGGAGGCGGCCCGGAGGAAACAGGAACAAGAAGC  
AGCAAAGCTGGCCAAGATGAAGATTCCCCCAGTGAGATGTTCTTGTGCAAAACCGACAAATACTCCAAGTTTGA  
TGAAAATGGTCTGCCCACACATGACATGGAGGGCAAAGAGCTCAGCAAAGGGCAAGCCAAGAAGCTGAAGAAGCT  
CTTCGAGGCTCAGGAGAAGCTCTACAAGGAATATCTGCAGATGGCCCAAGATGGAAGCTTCCAGTGAAGGGGCAC  
AGGACTGACTTTTTAAACCATTGTGGACTAGTGGCTGCTGTCTGCCTCAGTGACAATGTCCAGCGCTCCTATCA  
TGTTTACAGTCACCTTGGGTCCTAAATTAAGAGTTGTGTTTATGTAGGTTTCGTGTCGTGCTGGCTCTGAGACA  
TTGATAATAAATTTTCTCAACAGTGAAAAAAAAAAAAAAAAAAAAA



3404/6881  
**FIGURE 3138**

MADSSGQQGKGRRVQPQWSPAGTQPCRLHLYNSLTRNKEVFIQDGGKVTWYCCGPTVYDASHMGHARSYISFD  
ILRRVLKDYFKFDVFYCMNITDIDDKIIKRARQNHLEQYREKRPEAAQLLEDVQAALKPFSVKLNETTDPDKKQ  
MLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVEVLLEEAKDLLSDWLDSTLGCDVTDNSIFSKLPKFWEGDFHR  
DMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYVSNQSVYFD TAKFASSEKHSYGKLVPEAVGDQKALQEG  
EGDLSISADRLSEKRSPNDFALWKASKPGEP SWPCPWGKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHD  
NELAQSEAYFENDCWVRYFLHTGHLTIAGCKMSKSLKNF ITIKDALKKHSARQLRLAFLMHSWKDTLDYSSNTME  
SALQYEKFLNEFFLNVDILRAPVDITGQFEKWGEEAEELNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQC  
NLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSL EATVMPYLQVLSEFREGVRK  
IAREQKVPEIILQSDALRDNI LPELGVR FEDHEGLPTVVKLVDRNTLLKEREKRRVEEEKRKKKEEAARRKQEQ  
EAAKLAKMKIPPSEMFLSETDKYSKFDENGLPTHMEGKELSKGQAKKLKLF EAQEKLYKEYLQMAQNGSFQ

3405/6881  
**FIGURE 3139**

ATGTCCATCAGGGTAACCCAGAAGTCCTACGAGGTGTCCACCTCTAGCCCCCAGGACTTCAGCAGCCGCTCCTA  
CACGAGTGGACCTGGTGCCTGCATCAGCTCCTCAAGCTTTTCCCCAGTGGTACCAGCAGCTTCCGGGGTAGCCTG  
GGTGGAGGTTATGACAAGGTACGGTTCCTGGAGCAGCATAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAG  
CAGCAGAAGACAGCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAACTGGAC  
ACTCTGGGCCAGGAGAAGCTGAAGCTTGGCAACATGCAAGGGCTGATGGAGAAGTGAAGAACAAGTATGAGGAT  
GAGATCAATAAGTGTGCAGAGCTGGAGAATGAATTTGCCTCATCAAGAAGGATGTGGATGAAGCTAACATGAAC  
AAGGTAGAGCTGGAGTCTCTCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAG  
ATCCCAGAGCTGCAGTCCCAGATTTCGGACACATCTGTGGTGCTGTCCATGGACAGCAGCCGCTCCCTGGACATG  
GACAACACTATCGCTGAGGTCAAGGCGCAGTACAAGGTGATCTCCAACCGCAGCCGGGCGGAGGCTGAGAGCATG  
CACCAGATCAACTCCTTCAGCCACACCAGCTCCACCAGGGCCGTGGTTGTGAAGAATATCGAGACCCACGAAGGG  
AAGCTGGTGTCCGAGTCCTCTGACGTCCTGCCCAAGTGA

3406/6881  
**FIGURE 3140**

MSIRVTQKS YEVS TSS PPG LQQ PLLHEWTWCLHQ LLKLFPSGTSSFRGSLGGGYDKVRFLEQHNKMLETKWSLLQ  
QQKTARSNMDNMFESYINNLRQLDTLGQEK LKLG NMQGLMENCKNKYEDEINKCAELENEFVLIK KDVD EANMN  
KVELES LLEGLTDEINFLRQLYEEEIPELQSQISDTSVVL SMDSSRSLDMDNTIAEVKAQYKLHGYQELMKVKLA  
LDIEIATYRKLLDGEESRLDSFSHTSSTRAVVVKNIETHEGKLVSESSDVLPK

3407/6881  
**FIGURE 3141**

GGGAAGGGGATTGATTGTTGCGCCTCTGCTCTGAAGAAAGTGTGTCTGGCTCCAACCTCCAGTTCTTTCCCTT  
GAGCAGCGCCTGGAACCTAACCCCTTCCCACTCTGTACCTTCTCGATCCCGCCGGCGCTTTAGAGCCGCAGTCCA  
GTCTTGATCCTTCAGAGCCTTAGCCACTAGCTGCGATGCATGTGATCAAGCGAGATGGCCGCCAAGAACGAGTC  
ATGTTTGACAAAATTACATCTCGAATCCAGAAGCTTGTATGGACTCAATATGGATTTGTTGATCTGCTCAG  
ATCACCATGAAAGTAATCCAAGGCTTGTACAGTGGGGTCACCACAGTGGAACTAGATACTTTGGCTGTGAAACA  
GCTGCAACCTTGACTACTAAGCACCTGACTATGCTATCCTGGCAGCCAGGATCGCTGTCTCTAACTTGCACAAA  
GAAACAAAGAAAGTGTTCAAGTGTGATGGAAGACCTCTATAACTACATAAATCCACATAATGGCAAACACTCT  
CCCATGGTGGCCAAGTCAACATTGGATATTGTTCTGGCCAATAAAGATCGCCTGAATTCTGCTATTATCTATGAC  
CGAGATTTCTCTTACAATTACTTCGGCTTTAAGACGCTAGAGCGGTCTTATTTGTTGAAGATCAATGGAAGAGTG  
GCTGAAAGACCACAACATATGTTGATGAGAGTATCTGTTGGGATCCACAAAGAAGACATTGATGCAGCAATTGAA  
ACATATAATCTTCTTCTGAGAGGTGGTTTACTCATGCTTCGCCCACTCTCTTCAATGCTGGTACCAACCGCCCA  
CACTTTCTAGCTGTTTTCTTCTGAGTATGAAAGATGACAGCATTGAAGGCATTTATGACACTCTAAAGCAATGT  
GCATTGATTTCTAAGTCTGCTGGAGGAATTGGTGTGCTGTGAGTTGATTTCGGGCTACTGGCAGCTACATTGCT  
GGGACTAATGGCAATTCCAATGGCCTGTACCGATGCTGAGAGTATATAACAACACAGCTCGATATGTGGATCAA  
GGTGGGAACAAGCGTCTGGGGCATTGCTATTTACCTGGAGCCTTGGCATTTAGACATCTTGAATTCCTTGAT  
TTAAAGAAGAACACAGGAAGGAAGAGCAGCGTGCCAGAGATCTTTTCTTGTCTCTTGGATTCCGGATCTCTTC  
ATGAAACGAGTGGAGACTAATCAGGACTGGTCTTTGATGTGTCCAATGAGTGTCTGGTCTGGATGAGGTTTGG  
GGAGAGGAATTTGAGAACTATATGCAAGTTATGAGAAACAAGGTCGTGTCCGCAAAGTTGAAAAGCTCAGCAG  
CTTTGGTATGCCATCATTGAGTCTCAGACGGAACAGGCACCCCGTATATGCTCTACAAAGATTCTGTAAATCGA  
AAGAGCAACCAGCAGAACCTGGGAACCATCAAATGCAGCAACCTGTGCACAGAAATAGTGGAGTACACCAGCAAA  
GATGAGGTTGCTGTTTGAATTTGGCTTCCCTGGCCCTGAATATGTATGTCACATCAGAACACACATACGACTTT  
AAGAAGTTGGCTGAAGTCACTAAAGTCTGTGTCCGAAACTTGAATAAAATTATTGATATAAACTACTATCTCTGA  
CCAGAGGCATGCCTATCAAATAAACGCCATCGCCCCATTGGAATTGGGGTACAAGGTCTGGCAGATGCTTTTATC  
CTGATGAGATAACCTTTTGAGAGTGCAGAAGCCCAGTTACTGAATAAGCAGATCTTTGAACTATTTATTATGGT  
GCTCTGGAAGCCAGCTGTGACCTTGCCAAGGAGCAGGGCCCATACGAAACCTATGAGGGCTCTCCAGTTAGCAAA  
GGAATTTCTCAGTATGATATGTGGAATGTTACTCCTACAGACCTATGGGACTGGAAGGTTCTCAAGGAGAAGATT  
GCAAAGTATGGTATAAGAAACAGTTTACTTATTGCCCGATGCCTACAGCTTCCACTGCTCAGATCCTGGGGAAT  
AATGAGTCCATTGAACCTTACACCAGCAACATCTATACTCGCAGAGTCTTGTGAGGAGAATTCAGATTGTAAT  
CCTCACTTATTGAAAGATCTTACCGAGCGGGGCTATGGCATGAAGAGATGAAAAACCAGATTATTGCATGCAAT  
GGCTCTATTAGAGCATACAGAAATTCCTGATGACCTGAAGCAACTTTATAAACTGTGTGGGAAATCTCTCAG  
AAAAGTGTCTCAAGATGGCAGCTGAGAGAGGTGCTTTTATTGATCAAAGCCAATCTTTGAACATCCACATTGCT  
GAGCCTAACTATGGCAAACTCACTAGTATGCATTTCTACGGCTGGAAGCAGGGTTTGAAGACTGGGATGTATTAT  
TTAAGGACAAGACCAGCGGCTAATCCAATCCAGTTCACTCTAAATAAGGAGAAGCTAAAAGATAAAGAAAAGGTA  
TCAAAGAGGAAGAAGAGAAGGAGAGGAACACAGCAGCCATGGTGTGCTCTTTGGAGAATAGAGATGAATGTCTG  
ATGTGTGGATCCTGAGGAAAGACTTGGAAAGAGACCAGCATGTCTTCAGTAGCCAACTACTTCTTGAGCATAGAT  
AGGTATAGTGGGTTTGCTTGGAGGTGGTAAGGCTTTGCTGGACCCTGTTGCAGGCAAAAGGAGTAATTGATTTAAA  
GTACTGTTAATGATGATAATGATTTTTTTTTTAACTCATATATTGGGATTTTACCAAAAATAATGCTTTTGAAA  
AAAAGAAAAAAAACGGATATATTGAGAATCAAAGTAGAAGTTTGGGAATGCAAAATAAGTCATCTTGCATAC  
AGGGAGTGGTTAAGTAAGGTTTCATCACCCCTTTAGCACTGCTTTTCTGAAGACTTCAGTTTTGTTAAGGAGATT  
TAGTTTTACTGCTTTGACTGGTGGGTCTCTAGAAGCAAACTGAGTGATAACTCATGAGAAGTACTGATAGGACC  
TTTATCTGGATATGGTCTATAGGTTATTCTGAAATAAAGATAAACATTTCTAAGTG

3408/6881

**FIGURE 3142**

ACACTCGCTTCTGGAACGTCTGAGATTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTACAGAGGAGG  
ACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCC  
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA  
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA  
AGGGCACCTTTGCCCAGCTGAGTGAAGTGCAGTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGG  
GAAATGTGCTGGTGACCGTTTTGGCAATCCATTTTCGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA  
AGATGGTGACTGCAGTGGCCAGTGCCCTGTCCTCCAGATACCACTGAGCCTCTTGCCCATGATTAGAGCTTTCA  
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTGAGAGATCAC

3409/6881  
**FIGURE 3143**

MGHFTTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKANGKKVLTSLGDA  
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMTAVASALSSRYH

3410/6881  
**FIGURE 3144**

ACACTCGCTTCTGGAACGCTGAGGTTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTCACAGAGGAGG  
ACAAGGCTACTATCACAAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCCCTGGGAAGGCTCC  
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCTCTGCCTCTGCCATCATGGGCA  
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA  
AGGGCACCTTTGCCCAGCTGAGTGAAGTGCAGTGTGACAAGCTGCATGTGGATCCTGAGAAGTTCAAGCTCCTGG  
GAAATGTGCTGGTGACCGTTTGGCAATCCATTTGGCAAAGAATTACCCCTGAGGTGCAGGCTTCCTGGCAGA  
AGATGGTGACTGGAGTGGCCAGTGCCCTGTCTCCAGATACCACTGAGCTCACTGCCCATGATGCAGAGCTTTCA  
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTAAGAGATCAC

3411/6881  
**FIGURE 3145**

MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLTSLGDA  
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVASALSSRYH



3412/6881  
**FIGURE 3146**

CAACAAAAAGAGCCTCAGGATCCAGCACACATTATCACAACTTAGTGTCATCCATCAGTCTGACCCCTCTCC  
GGACCTGACTCCACCCCTGAGGACACAGGTCAGCCTTGACCAATGACTTTTAAGTACCATGGAGAACAGGGGGCC  
AGAACTTCGGCAGTAAAGAATAAAAGGCCAGACAGAGAGGCAGCAGCACATATCTGCTTCCGACACAGCTGCAAT  
CACTAGCAAGCTCTCAGGCCTGGCATCATGTGCATTTTACTGCTGAGGAGAAGGCTGCCGTCCTAGCCTGTGG  
AGCAAGATGAATGTGGAAGAGGCTGGAGGTGAAGCCTTGGGCAGACTCCTCGTTGTTTACCCCTGGACCCAGAGA  
TTTTTTGACAGCTTTGGAAACCTGTCGTCTCCCTCTGCCATCCTGGGCAACCCCAAGGTCAAGGCCCATGGCAAG  
AAGGTGCTGACTTCCTTTGGAGATGCTATTAATAACATGGACAACCTCAAGCCCGCCTTTGCTAAGCTGAGTGAG  
CTGCACTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGGGTAACTGATGGTGATTATTCTGGCT  
ACTCACTTTGGCAAGGAGTTTACCCCTGAAGTGCAGGCTGCCTGGCAGAAGCTGGTGTCTGCTGTCTGCCATTGCC  
CTGGCCCATAGTACCACTGAGTTCTCTCCAGTTTGCAGGTCTTCTGTGACCCTGACACCCTCCTTCTGCACA  
TGGGGACTGGGCTTGGCCTTGAGAGAAAGCCTTCTGTTTAATAAAGTACATTTTCTTCAGTAATC

3413/6881  
**FIGURE 3147**

MVHFTAEEKAAVTISLWSKMNVEEAGGEALGRLLVVYPWTQRFFDSFGNLSSPSAILGNPKVKAHGKKVLTSFGDA  
IKNMDNLKPAFAKLSELHCDKLHVDPENFKLLGNVMVILATHEGKEFTPEVQAAWQKLVSAVAIALAHKYH

3414/6881  
**FIGURE 3148**

CTCTTCTCCCCGATTCAAGACTCCTCTGCTTTGGACTGAAGCACTGCAGGAGTTTGTGACCAAGAACTTCAAGA  
GTCAAGACAGAAGGAAGCCAAGGGAGCAGTGCAATGGATTTCTCAGTAAAGGTAGACATAGAGAAGGAGGTGACC  
TGCCCCATCTGCTGGAGCTCCTGACAGAACCCTGAGCCTAGATTGTGGCCACAGCTTCTGCCAAGCCTGCATC  
ACTGCAAAGATCAAGGAGTCAGTGATCATCTCAAGAGGGGAAAGCAGCTGTCTGTGTGTCAGACCAGATTCCAG  
CCTGGGAACCTCCGACCTAATCGGCATCTGGCCAACATAGTTGAGAGAGTCAAAGAGGTCAAGATGAGCCACAG  
GAGGGGCAGAAGAGAGATGTCTGTGAGCACCACGGAAGAACTCCAGATCTTCTGTAAGGAGGATGGAAAAGTC  
ATTTGCTGGGTTTGTGAAGTGTCTCAGGAACACCAAGGTCACCAAACATTCCGCATAAACGAGGTGGTCAAGGAA  
TGTCAGGAAAAGCTGCAGGTAGCCCTGCAGAGGCTGATAAAGGAGAATCAAGAGGCTGAGAAGCTGGAAGATGAC  
ATCAGACAAGAGAGAACCGCCTGGAAGATCGAGAGACAGAAGATTCTGAAAGGGTTCAATGAAATGAGAGTCATC  
TTGGACAATGAGGAGCAGAGAGAGCTGCAAAAGCTGGAGGAAGGTGAGGTGAATGTGCTGGATAACCTGGCAGCA  
GCTACAGACCAGCTGGTCCAGCAGAGGCAGGATGCCAGCAGCTCATCTCAGATCTCCAGCGGAGGTTGACGGGA  
TCGTCAGTAGAGATGCTGCAGGATGTGATTGACGTATGAAAAGGAGTGAAAGCTGGACATTGAAGAAGCCAAAA  
TCTGTTTCCAAGAACTAAAGAGTGTATTCCGAGTACCAGATCTGAGTGGGATGCTGCAAGTTCTTAAAGAGCTG  
ACAGATGTCCAGTACTACTGGGTGGACGTGATGCTGAATCCAGGCAGTGCCACTTCGAATGTTGCTATTTCTGTG  
GATCAGAGACAAGTGAAAACCTGTACGCACCTGCACATTTAAGAATTCAAATCCATGTGATTTTTCTGCTTTTGGT  
GTCTTCGGCTGCCAATATTTCTCTTCGGGGAAATATTACTGGGAAGTAGATGTGCTGGAAAGATTGCCCTGGATC  
CTGGGCGTACACAGTAAATAAGTAGTCTGAATAAAGGAAGAGCTCTGGGTTTGCTTTTGATCCAAGTGTAAT  
TATTCAAAAGTTTACTCCAGATATAGACCTCAATATGGCTACTGGGTTATAGGATTACAGAATACATGTGAATAT  
AATGCTTTTGGAGACTCCTCCTCTTCTGATCCCAAGGTTTGGACTCTCTTATGGCTGTGCTCCCTGTCGTATTG  
GGGTTTTCTAGACTATGAGGCAGGCATTGTCTCATTITTTCAATGTCAAAACCACGGAGCACTCATCTACAAGT  
TCTCTGGATGTGCGTTTTCTCGACCTGCTTATCCGTATTTCAATCCTTGGAACTGCCCTAGTCCCCATGACTGTGT  
GCCCACCGAGCTCCTGAGTGTTCTCATTCTTTACCCACTTCTGCATAGTAGCCCTTGTGCTGAGACTCAGATTC  
TGCACCTGAGTTCATCTCTACTGAGACCATCTCTCTTTCTTTCCCTTCTTTTACTTAGAATGTCTTTGTATT  
CATTTGCTAGGGCTTCCATAGCAAAGCATCATAGATTGCTGATTTAACTGTAATTGTATTGCCGTACTGTGGGC  
TGAAAATCCCAAATCTAGATTCCAGCAGAGTTGGTCTTTCTGAGGTCTGCAAGGAAGGGCTCTGTTCCATGCCT  
CTCTCCTTGGCTTGTAGAAGGCATCTTGTCCCTATGACTCTTCACATTGTCTTTATGTACATCTCTGTGCCAAG  
TTTTCCCTTTTTATTAAGACACCAGTCATACTGGCTCAGGGCCACCGCTAATGCCTTAATGAAATCATTITTAAC  
ATTATATTCTCTACAAAGACCTTATTTCCAAATAAGATAATATTGGAGGTATTGGGAATAAAACTCCAACATA  
TAAATTTGAGGAAGGCACGATTTCACTCATAACAATCTTACCCTTTCTTGCAAGAGATGCTGTACATAATTTTC  
CTAATACCTTGGTTTCACTAGTAGTAAACATTATTATTTTTTTATATTGCAAAGGAACATATCTAATCCTTC  
CTATAGAAAGAACAGTATTGCTGTAATGTCCTTTTCTTTCTTCTCATTTCCTCTGCCCTTAAAGATTGAAG  
AAAGAGAACTTGTCAACTCATATCCACGTTATCTAGCAAAGTACATAAGAATCTATCACTAAGTAATGTATCCT  
TCAGAATGTGTGGTTTACCAGTGACACCCCATATTCATCAGAAAATTAAGCAAGAAGTCCATAGTAATTTATT  
TGCTAATAGTGGATTTTAAATGCTCAGAGTTTCTGAGGTCAAATTTTATCTTTTCACTTACAAGCTCTATGATCT  
TAAATAATTTACTTAATGTATTTTGGTGTATTTTCTCAAATTAATATTGGTGTTCAGACTATATCTAATTCCT  
CTGATCACTTTGAGAAACAACTTTTATTAAATGTAAGGCATTTTCTATGAATTTTAAATATAAAAATAAATAT  
TGTTCTGATTATTACTGAAAAGATGTCAGCCATTTCAATGTCTTGGGAACAATTTTTGTTTTGTTCTGTTTT  
CTTTTGTCTTCAATAAAACAATAGCTGGCTCT

3415/6881  
**FIGURE 3149**

GGCACGAGGCTGAGCGCTCCGACTTCCAGAGGAGCGCTGTGCACGTGGAGAAGAGCGGGGACTCGGCGACCCTGC  
CCTCCCGACCCTCATGTTTCGAAGAGCCTGAGTGGGCCGAGGCGGCCCCAGTAGCCGCGGGCCTTGGGCCCCGTAAT  
CTCACGACCTCCGCTGCGGCCTCCTCGCAAAACAAGGGCTCCAAGCGCCGCCAGCTCTTGGCCACATTACGGGC  
CCTAGAGGCAGCATCTCTTTCCAGCATCCCCCAGCCTATGTATAAGTGAAGTCTGAGGAGGAGGAGGAGGAAAG  
GAAGAAGAAATGCCCCAAAAGGCATCATTGCGCAGTGCCTCTGCTGAAGTAGGGAAGAAAGGGAAGAAGAAATG  
TCAAAAACAGGGCCCACCTTGCACTGACTCTGAGGAAGAAGTAGAAAGGAAGAAGAAATGCCACAAACAGGCTCT  
TGTTGGCAGTGAAGTCTGCTGAAGATGAGAAAAGAAAGAGGAAATGCCAGAAACATGCCCCATAAATTACGCCCA  
GCACCTGGACAATGTTGACCAACAGGTCCCAAAGCCTGGAAGGGTAGTACTACAAATGATCCACCAAGCAAAG  
CCCTGGGTCCACTTCCCCTAAACCCCTCATACATTAAGCCGCAAGCAGTGGCGGAACCGGCAAAAGATAAGAG  
AAGATGTAAGAACAAGTTTCAGCCACCTCAGGTGCCAGACCAGGCCCCAGCTGAGGCCCCACAGAGAAGACAGA  
GGTGTCTCCTGTTCCAGGACAGACAGCCATGAGGCTCGGGCAGGGGCTTTGCGAGCCCGCATGGCACAGCGGCT  
GGATGGGGCCCGATTTGCTACCTCAATGAACAGTTGTACTCAGGGCCAGCAGTGTGTCACAGCGTCTCTTCCA  
GGAAGACCCTGAGGCTTTTCTTCTTACCACCGCGGCTTCCAGAGCCAAGTGAAGAAGTGGCCACTGCAGCCAGT  
GGACCGCATCGCCAGGGATCTTCGCCAGCGGCCTGCATCCCTAGTGGTGGCTGACTTCGGCTGTGGGGATTGCCG  
CTTGGCTTCAAGTATCCGGAACCTGTGCATTGCTTTGACTTGGCTTCTCTGGACCCTAGGGTCACTGTGTGTGA  
CATGGCCCAGGTTCTCTGGAGGATGAGTCTGTGGATGTGGCTGTGTTTTGCCTTTCACTGATGGGAACCAACAT  
CAGGGACTTCCTAGAGGAGGCAAATAGAGTACTGAAGCCAGGGGGTCTCCTGAAAGTGGCTGAGGTGAGCAGCCG  
CTTTGAGGATGTTGGAACCTTTCTGCGGGCTGTGACCAAGCTAGGCTTCAAGATTGCTCCAAGGACCTGACCAA  
CAGCCATTTCTTCTGTTTGATTTCCAAAAGACTGGGCCCCCTCTGGTAGGGCCCAAGGCTCAGCTTTTACGGCCT  
GCAGCTTCAGCCATGTCTCTACAAGCGCAGGTGACTCTGGATCTTCTTGAAAGGGGAGGCAGATCTCAAACCTC  
CAGGCTCAGAAGTGTGAAGACTGTTTCCAGCCTGGCTGTGAGCCAAGACCTGGTTTCTGGTGGACCCTGAGGACA  
AAGTGTGATAAAACCTCTGGCTCAGACTTGCTCTACTGAAGGCTTCTTGGTTATAAGATGCATAAAGTCACTGGG  
GCTAGCTAAACAATAAAGAGTTTATTGTGAGAAAAA

3416/6881  
**FIGURE 3150**

MFEEPEWAEAAPVAAGLGPVISRPPPAASSQNKGSKRRQLLATLRALEAASLSQHPPSLCISDSEEEEEERKKKC  
PKKASFASASAEVGKKGKKKCQKQGPPCSDSEEEVERKKKCHKQALVGSDSAEDEKRKRKCQKHAPINSAQHLDN  
VDQTGPKAWKGSTNDPPKQSPGSTSPKPPHTLSRKQWRNRQKNKRRCKNKFQPPQVPDQAPAEAPTEKTEVSPV  
PRTDSHEARAGALRARMARLDGARFRYLNEQLYSGPSSAAQRLFQEDPEAFLLYHRGFQSQVKKWPLQPVDRIA  
RDLRQRPASLVVADFGCGDCRLASSIRNPVHCFDLASLDPRVTVCDMAQVPLEDESVDVAVFCLSLMGTNIRDFL  
EEANRVLKPGGLLKVAEVSSRFEDVRTFLRAVTKLGFKIVSKDLTNSHFFLFDFQKTGPPLVGPKAQLSGLQLQP  
CLYKRR

3417/6881  
**FIGURE 3151**

ACGGGAGTTCCCCGGAGAAGGATCCTGCAGCCCGAGTCCCGAGGATAAAGCTTGGGGTTTCATCCTCCTTCCCTGG  
ATCACTCCACAGTCCTCAGGCTTCCCCAATCCAGGGGACTCGGCGCCGGGACGCTGCTATGGACGACATTTTCAC  
TCAGTGCCGGGAGGGCAACGCAGTCGCCGTTTCGCCTGTGGCTGGACAACACGGAGAACGACCTCAACCAGGGGGA  
CGATCATGGCTTCTCCCCCTTGCAGTGGGCCTGCCGAGAGGGCCGCTCTGCTGTGGTTGAGATGTTGATCATGCG  
GGGGGCACGGATCAATGTAATGAACCGTGGGGATGACACCCCTTGCATCTGGCAGCCAGTCATGGACACCGTGA  
TATTGTACAGAAGCTATTGCAGTACAAGGCAGACATCAATGCAGTGAATGAACATGGGAATGTGCCCCCTGACTA  
TGCCGTGTTTTGGGGCCAAGATCAAGTGGCAGAGGACCTGGTGGCAAATGGGGCCCTTGTGAGCATCTGTAACAA  
GTATGGAGAGATGCCTGTGGACAAAGCCAAGGCACCCCTGAGAGAGCTTCTCCGAGAGCGGGCAGAGAAGATGGG  
CCAGAATCTCAACCGTATTCCATACAAGGACACATTCTGGAAGGGGACCACCCGCACTCGGCCCCGAAATGGAAC  
CCTGAACAAACACTCTGGCATTGACTTCAAACAGCTTAACTTCCTGACGAAGCTCAACGAGAATCACTCTGGAGA  
GCTATGGAAGGGCCGCTGGCAGGGCAATGACATTGTGCTGAAGGTGCTGAAGGTTGAGACTGGAGTACAAGGAA  
GAGCAGGGACTTCAATGAAGAGTGTCCCCGGCTCAGGATTTTCTCGCATCCAAATGTGCTCCCAAGTGCTAGGTGC  
CTGCCAGTCTCCACCTGCTCCTCATCCTACTCTCATCACACACTGGATGCCATATGGATCCCTCTACAATGTACT  
ACATGAAGGCACCAATTTTCGTGCTGGACCAGAGCCAGGCTGTGAAGTTTGCTTTGGACATGGCAAGGGGCATGGC  
CTTCCTACACACACTAGAGCCCTCATCCACGACATGCACTCAATAGCCGTAGTGTAATGATTGATGAGGACAT  
GACTGCCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTCCAATGTCTGGTTCGCATGTATGCACCTGCCTGGGT  
AGCCCCCGAAGCTCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAGACATGTGGAGTTTTCAGTGCT  
TCTGTGGGAAGTGGTGACACGGGAGGTACCCCTTTCGTGACCTCTCCAATATGGAGATTGGAATGAAGGTGGCATT  
GGAAGGCCTTCGGCCTACCATCCACCAGGTATTTCCCTCATGTGTGTAAGCTCATGAAGATCTGCATGAATGA  
AGACCCTGCAAAGCGACCCAAATTTGACATGATTGTGCCTATCCTTGAGAAGATGCAGGACAAGTAGGACTGGAA  
GGTCTTGCCTGAACTCCAGAGGTGTGGGACATGGTTGGGGGAATGCACCTCCCCAAAGCAGCAGGCCTCTGGT  
TGCTTCCCCCGCTCCAGTCATGGTACTACCCAGCCATGGGGTCCATCCCCTTCCCCCATCCCTACCACTGTGG  
CCCCAAGAGGGGCGGGCTCAGAGCTTTGTCACTTGCCACATGGTGTCTCCAACATGGGAGGGATCAGCCCCGCC  
TGTCACAATAAAGTTTATTATG

3418/6881  
**FIGURE 3152**

ACATGACAGCAGATCCGCGGAAGGGCAGAAATGGGACTCCAAGCCTGCCTCCTAGGGCTCTTTGCCCTCATCCTCT  
CTGGCAAATGCAGTTACAGCCCGAGCCCGACCAGCGGAGGACGCTGCCCCAGGCTGGGTGTCCCTGGGCCGTG  
CGGACCCTGAGGAAGAGCTGAGTCTCACCTTTGCCCTGAGACAGCAGAATGTGGAAAGACTCTTGAGCTGGTGC  
AGGTGTGTGCGATCCAGCTCTCCTCAATACGGAATACTGACCCTAGAGAATGTGGCTGATCTGGTGAGGC  
CATCCCCACTGACCCITCCACACGGTGCAAAAATGGCTCTTGGCAGCCGGAGCCAGAAAGTCCATTCTGTGATCA  
CACAGGACTTTCTGACTTGCTGGCTGAGCATCCGACAAGCAGAGCTGCTGCTCCCTGGGGCTGAGTTTCATCACT  
ATGTGGGAGGACCTACGGAGACCCATGTTGTAAGGTCCCCACATCCCTACCAGCTTCCACAGGCCCTTGGCCCCC  
ATGTGGACTTTGTGGGGGGACTGCACCGTTTTCCCCAACATCATCCCTGAGGCAACGTCTGAGCCGCAGGTGA  
CAGGGACTGTAGGCTGCACTCTGGGGGTAAACCCCTCTGTGATCCGTAAGCGATACAACCTGACCTCACAAGACG  
TGGGCTCTGGCACCAGCAATAACAGCCAAGCCTGTGCCAGTTCTTGGAGCAGTATTTCCATGACTCAGACCTGG  
CTCAGTTTCATGCGCTCTTCGGTGGCAACTTTGCACATCAGGCATCAGTAGCCCGTGTGGTTGGACAACAGGGCC  
GGGGCCGGCCGGGATTGAGGCCAGTCTAGATGTGCAGTACCTGATGAGTGTGGTGCCAACATCTCCACCTGGG  
TCTACAGTAGCCCTGGCCGGCATGAGGGACAGGAGCCCTTCTGAGTGGCTCATGCTGCTCAGTAATGAGTCAG  
CCCTGCCACATGTGCATACTGTGAGCTATGGAGATGATGAGGACTCCCTCAGCAGCGCCTACATCCAGCGGGTCA  
ACACTGAGCTCATGAAGGCTGCCGCTCGGGGTCTCACCTGCTCTTCGCCCTCAGGTGACAGTGGGGCCGGGTGTT  
GGTCTGTCTCTGGAAGACACAGTTCGCCCTACCTTCCTGCCTCCAGCCCTATGTCACCACAGTGGGAGGCA  
CATCCTTCCAGGAACCTTTCTCATCACAAATGAAATGTTGACTATATCAGTGGTGGTGGCTTCAGCAATGTGT  
TCCCACGGCCTTCATACCAGGAGGAAGCTGTAACGAAGTTCTGAGCTCTAGCCCCACCTGCCACCATCCAGTT  
ACTTCAATGCCAGTGGCCGTGCCTACCCAGATGTGGCTGCACCTTTCTGATGGCTACTGGGTGGTCAGCAACAGAG  
TGCCCCATTCCATGGGTGTCCGGAACCTCGGCCTCTACTCCAGTGTGTTGGGGGGATCCTATCCTTGATCAATGAGC  
ACAGGATCCTTAGTGGCCGCCCCCTCTTGGCTTTCTCAACCCAAGGCTCTACCAGCAGCATGGGGCAGGACTCT  
TTGATGTAACCCGTGGCTGCCATGAGTCTGTCTGGATGAAGAGGTAGAGGGCCAGGGTTTCTGCTCTGGTCTCTG  
GCTGGGATCCTGTAACAGGCTGGGGAACACCCAACCTTCCAGCTTTGCTGAAGACTCTACTCAACCCCTGACCCCT  
TTCCTATCAGGAGAGATGGCTTGTCCCTGCCCTGAAGCTGGCAGTTCAGTCCCTTATTCTGCCCTGTTGGAAGC  
CCTGCTGAACCTCAACTATTGACTGCTGCAGACAGCTTATCTCCCTAACCTGAAATGCTGTGAGCTTGACTTG  
ACTCCCAACCCCTACCATGCTCCATCATACTCAGGTCTCCCTACTCCTGCCTTAGATTCTCAATAAGATGCTGTA  
ACTAGCATTTTTTGAATGCCTCTCCCTCCGCATCTCATCTTTCTCTTTTCAATCAGGCTTTTCCAAAGGGTTGTA  
TACAGACTCTGTGCACTATTTCACTTGATATTCATTCCCAATTCAGTCAAGGAGACCTCTACTGTACCGTTT  
ACTCTTTCTTACCCTGACATCCAGAAACAATGGCCTCCAGTGCATACTTCTCAATCTTTGCTTTATGGCCTTTCC  
ATCATAGTTGCCACTCCCTCTCCTTACTTAGCTTCCAGGTCTTAACCTCTCTGACTACTCTTGTCTTCCCTCTCT  
CATCAATTTCTGCTTCTTCATGGAATGCTGACCTTCATTGCTCCATTTGTAGATTTTGTCTCTCTCAGTTTACT  
CATTGTCCCTGGAACAAATCACTGACATCTACAACCATACCATCTCACTAAATAAGACTTTCTATCCAATAAT  
GATTGATACCTCAAATGTAAGATGCGTGATACTCAACATTTTCATCGTCCACCTTCCCAACCCCAACAATTCAT  
CTCGTTTCTTCTTGGTAAATGATGCTATGCTTTTTTCCAACCAAGCCAGAAACCTGTGTCTATCTTTACCCACC  
TTCAATCAACAAGTCTCAATCAACAAGTCTTACTGACTGCACATCTTAAATATATCTTTATCAGTCCACAAGTC  
CTTCCAATTATATTTCCCAAGTATATCTAGAAGTTATCCACTTATATCCCCTGCTACTACCTTAGTTTAGGGC  
TATATTCTCTTGAAAAAAGTGCTTACTTCTGCCCAATCCCCAAGTCATCTCCAGAGTAAATGCAAAATCCC  
ATCAGGCCACTTGGATGAAAACCCCTTCAAGGATTACTGGATAGAATTCAGGCTTTCCCTCCACCCCCCAATCAT  
AGCTCACAACCTTCTCTGCTATTTGTTCTTAAGTAAAAAATCATTTTTCTCTCCTCCCTCCCAACCCCAAGGA  
ACTCTACTCTTGCTCAAGCTGTTCCGTCCCTTACCACCCCTGATACAACCTGCCAGGTTAATTTCCAGAATTCT  
TGCAAGACTCAGTTCAGAAGTCACCTTCTTTCGTGAATGTTTTGATTCCCTGAGGCTACTTTATTTTGGTATGGC  
TGAAAAATCCTAGATTTCTAAACAAAACCTGTTTGAATCTTGGTTCTGATATGGACTAGGAGAGAGACTGGGTG  
AAGTAAGCTTATCTCCCTGAGGCTGTTTCTCGTCTGTTAAGTGTGAATATCAATACCTGCCTTTCATAATCACC  
AGGGATAAAGTGGAAATAATGTTGATAACAGTGCTTGGCAGCTGGAAGTAGGTGGCAGATGTTAACGCCCTTCT  
CCCTTGCACTGCGCCCCCTGTGCCTACCTCTAGCATTGTAACGACCACATAGTATTGAAATGGCCAGTTTACTTG  
TCTGCCCTCTTTTCCAGACCGTTGGTGCTTAGAGGACTAGAATCGTGTCTATTAACTTTGTGTTCCAGGTG  
CTAGCTCAGGAGTTGGCAAATAAGAATTAAATGTCTGTACACCGAAA

3419/6881  
**FIGURE 3153A**

GCTGTGCAGGAGGCGCGCCCGGGCGTCAGCGGACGGACCGATCGCCGGCCAAGGGCGCGCGGTCCGACGGCGGC  
TGCCCGGAGGGGATCGCGGGCCTCGGAGACAGCGACTGCGGACGATGCGCGGCTTCAGGCCCCGCGGAGCGGGC  
GCTGCCCGGGGGGCTGACCGCGGCCGACGCGCCCCAGCACCGGGCGAGGGAGCCCGCGTCGCGCGGAGGTACAG  
GGAGCCTGAGCTGGAGCCAGGGCCCCAGTGGGACCTGACCCAAAGTCTGAGGTCAAGCTGGGCCCAGAGCCTGGC  
CTGGAGCTGGAGCCCCAAGGCACAGCTGGACTACCCCTTGTATGTCAGAAGGAGCTGGGCATTGTGCCTTCCTGCCC  
TGGCATGAAGAGCCCCAGGCCCCACCTCCTGCTACCATTGTGCTGCTGCTGCTGCTGCTGCTGCTGGGGGCTGGGGT  
GCCAGTGCCTGGGGTCAAGGCTGGGAGCCTGGACTTGCAGATTGATGAGGAGCAGCCAGCGGGTACACTGATTGG  
CGACATCAGTGCGGGGCTTCCGGCAGGCACGGCAGCTCCTCTCATGTACTTCATCTCTGCCCAAGAGGGCAGCGG  
CGTGGGCACAGACCTGGCCATTGACGAACACAGTGGGGTCTCCGTACAGCCCGTGTCTTGGACCGTGAGCAGCG  
GGACCGCTACCGCTTCACTGCAGTCACTCCTGATGGTGCCACCGTAGAAGTTACAGTGCAGTGGCTGCATCAA  
CGACCATGCTCCAGCCTTCCACAGGCTCGGGCTGCCCTGAGGTACCTGAGCATACAGCTTTTGGCACCCGCTA  
CCCCTGGAGCCTGCTCGTGATGTCAGATGTGGGCGTCTGGGAACCCAGGGCTATGCGCTATCTGGTGATGGGGC  
TGGAGAGACCTTCCGGCTGGAGACACGCCCCGGTCCAGATGGGACTCCAGTACCTGAGCTGGTAGTTACTGGGGA  
ACTGGACCGAGAGAACCCTCACACTATATGCTACAGCTGGAGGCCTATGATGGTGGTTACCCCCCGGAGGGC  
CCAGGCCCTGCTGGACGTGACACTGCTGGACATCAATGACCATGCCCCGGCTTCAATCAGAGCCGCTACCATGC  
TGTGGTGTCTGAGAGCCTGGCCCCCTGGCAGTCCCTGTCTTGACAGGTGTTTCGCATCTGATGCCGATGCTGGTGTCAA  
TGGGGTGTGACTTACGAGATCAACCGGAGGCAGAGCGAGGGTGTGAGACCCTTCTCCATCGACGCACACACGGG  
GCTGCTGCAGTTAGAGCGGCCACTGGACTTTGAGCAGCGCGGGTCCATGAAGTGGTGGTGAAGCAGAGATGG  
TGGGGCTCACCTGAGCTGGGCTCGGCCTTTGTGACTGTGCATGTGCGAGATGCCAATGACAATCAGCCCTCCAT  
GACTGTCTCTTTCTCAGTGCAGATGGCTCCCCCAAGTGTCTGAGGCCGCCCCACCTGGACAGCTCGTTGCTCG  
CATCTCTGTGTCAGACCCAGATGATGGTGACTTTGCCATGTCAATGTGTCCCTGGAAGGTGGAGAGGGCCACTT  
TGCCCTAAGCACCCAAGACAGCGTCATCTATCTGGTGTGTGGCTCGGCGGCTGGATCGAGAGGAGAGGGATGC  
CTATACTTGAGGGTTACAGCCACAGACTCAGGCTCACCTCCACTGCGGGCTGAGGCTGCCTTTGTGCTGCAGT  
CACTGATGTCAACGACAATGCACCTGCCTTTGACCGCCAGCTCTACCGACCTGAGCCCCTGCCTGAGGTTGCGCT  
GCCTGGCAGCTTTGTAGTGCGGGTGAAGTGTGCTCGGGATCCTGACCAAGGCACCAATGGTCAGGTCACTTATAGCCT  
AGCCCCTGCGGCCACACCCACTGGTTCTCCATTGACCCACCTCAGGCATTATCACTACGGCTGCCTCACTGGA  
CTATGAGTTGGAACCTCAGCCACAGCTGATTGTGGTGGCCACAGATGGTGGCCTGCCCCCTCTAGCCTCCTCTGC  
CACAGTTAGCGTGGCCCTGCAAGATGTGAATGATAATGAGCCCCAATTCCAGAGGACTTTCTACAATGCCTCACT  
GCCTGAGGGCACCCAGCCTGGAACCTTGCTTCTGTCAGGTGACAGCCACAGACGCGGATAGTGGCCCATTTGGCCT  
CCTCTCCTATTCTTGGGTGCTGGACTTGGGTCTCCGGATCTCCCCATTCCGCATTGATGCCACAGCGGTGA  
TGTGTGCACAACCCGGACCTGGACCGTGACCAGGGGCCCTCAAGCTTTGACTTCACAGTGACAGCTGTGGATGG  
GGGAGGCCCTCAAGTCCATGGTATATGTGAAGGTGTTTCTGTGACGAGAGATGACAACCTCCTCAGTTTATCC  
ACGGGAGTATGCTGCCAGTATAAGTGCCAGAGTCCACCAGGCACAGCTGTGCTGAGGTTGCGTGCCATGACCC  
TGACCAGGGATCCCATGGGCGACTCTCCTACCATATCCTGGCTGGCAACAGCCCCCACTTTTACCTTGGATGA  
GCAATCAGGGCTGTTGACAGTAGCCTGGCCCTTGGCCAGACGGGCCAATTCTGTGGTGCAGCTGGAGATCGGGGC  
TGAGGACGGAGGTGGCCTACAGGCAGAACCAGTGCCCGAGTGGACATCAGCATTGTGCTTGAACCCCCACACC  
ACCCATATTTGAGCAACTACAGTATGTTTTTCTGTGCCAGAGGATGTGGCACCAGGCACCAAGTGTGGGCATAGT  
CCAGGCACACAACCCACCAGGTGCTTGGCACCTGTGACCCTTCCCTATCAGGTGGGGATCCCCGAGGACTCTT  
CTCCCTAGATGCGGTATCAGGACTGTTGCAACACTTCGCCCTCTGGACCGGAGCTACTGGGACCAGTGTGGA  
GCTGGAGGTGCGAGCAGGCAGTGGAGTGCCCCAGCTTTTCGTGTAGCTCGGGTGCCTGTGCTGCTGGATGATGT  
GAATGACAACCTCCCCTGCCTTTCTGTCACCTGAAGACACGGTATTGCTACCACCAAACTGCCCCAGGGACTCC  
CATCTATACACTGCGGGCTCTTGACCCGACTCAGGTGTTAAGTGCAGTACCTTTACCTGCTTGTGTTGGG  
TGGTGGAGCCTTACCGTGGACCCACCACAGGCCATGTACGGCTTATGAGGCTCTGGGGCCCTCAGGAGGGCC  
AGCCATGAGCTGGAGCTGGAGGCCCCGGATGGGGGCTCCCCACCACGCACCAGCCACTTTCGACTACGGGTGGT  
GGTACAGGATGTGGGAACCCGTGGGCTGGCTCCCCGATTCAACAGCCCTACCTACCGTGTGGACTGCCCTCAGG  
CACCCTGCTGGAACCTCAGGTCTGCAAGTGCAGGCCAAGCACCAGATGGGGGCCCTATCACCTATCACCTTGC  
AGCAGAGGGAGCAAGTAGCCCCCTTGGCCTGGAGCCACAGAGTGGGTGGCTATGGGTGCGGGCAGCACTAGACCG  
TGAGGCCCAGGAATTGTACATACTGAAGGTAATGGCAGTGTCTGGGTCCAAAGCTGAGTTGGGGCAGCAGACAGG



3420/6881  
FIGURE 3153B

CACAGCCACCGTGAGGGTCAGCATCCTCAACCAGAATGAACACAGTCCCCGCTTGTCTGAGGATCCCACCTTCCT  
GGCTGTGGCTGAGAACCAGCCCCAGGGACCAGCGTGGGCCGAGTCTTTGCCACTGACCGAGACTCAGGACCCAA  
TGGACGTCTGACCTACAGCCTGCAACAGCTGTCTGAAGACAGCAAGGCCTTCCGCATCCACCCCCAGACTGGAGA  
AGTGACCACACTCCAAACCTGGACCGTGAGCAGCAGAGCAGCTATCAGCTCCTGGTGCAGGTGCAGGATGGAGG  
GAGCCACCCCGCAGCACCACAGGCACTGTGCATGTTGCAGTGCTTGACCTCAACGACAACAGCCCCACGTTCTCT  
GCAGGCTTCAGGAGCTGCTGGTGGGGGCTCCCTATACAGGTACCAGACCGCGTGCCTCCAGGAACACTGGTGAC  
GACTCTGCAGGCGAAGGATCCAGATGAGGGGGAGAATGGGACCATCTTGTACACGCTAACTGGTCTGGCTCAGA  
GCTTTTCTCTGACCCCTCACTCAGGGGAGCTGCTCACTGCAGCTCCCTGATCCGAGCAGAGCGGCCCACTA  
TGTGCTGACACTGAGTGCTCATGACCAAGGCAGCCCTCCTCGAAGTGCCAGCCTCCAGCTGCTGGTGCAGGTGCT  
TCCCTCAGCTCGCTTGGCCGAGCCGCCCCAGATCTCGCAGAGCGGGACCCAGCGGCACCACTGCTGCTGCT  
GACGGTGACAGCAGCTGAGGGACTGCGGCCCGGCTCTCTGTTGGGCTCGGTGGCAGCGCCAGAGCCCGCGGTGT  
GGGTGCACTACCTACACACTGGTGGGCGGTGCCGATCCCGAGGGCACCTTCGCGCTGGATGCGGCCTCAGGGCG  
CTTGTACCTGGCGCGGCCCTGGACTTCGAAGCTGGCCCGCGTGGCGCGCGCTACGGTACGCGCTGAGGGGCC  
GGGAGGCGCGGGCGCGCGGCTGCTGCGAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCA  
GCGCGACCCGCTGGCGCTGGCGCTGCCAGAGAACCCGAGCCCGCGCAGCGCTGTACACTTTCCGCGCGTCGGA  
CGCCGACGGCCCGGCCCAATAGCGAGCTGCGCTACCGCTGCTGCGCCAGGAGCCGCGCTGCCGGCGCTTCG  
CCTGGACGCGCGCACCGGGGCGCTCAGCGCTCCGCGCGGCTGGACCGAGAGACCACTCCCGCGCTGCTGCTGCT  
GGTGAAGCCACCGACCGGCCCGCCAAACGCCAGCGCGCTCGTGCGCGCGCTTTACGCGCGCTCTTCGTCAC  
GGATGAGAATGACAACGCGCTGTCTTCGCTCGCGCTCAGCGTGCGCTCCAGAGGACCAGCGCCTGGGCC  
CGCGGCCCTGACGTGGTAGCCCGGACCCGATCTGGGCGAGGCTGCACGCGTGTCTATCGGCTGGCATCTGG  
CGGGGACGGCCACTTCCGGCTGCACTCAAGCACTGGAGCGCTGTCCGTGGTGGCGCGCTTGGACCGCAACACG  
AGCTGAGCAGTACTGACAGTGGTGGCTCAGACCAGGCTCCCCGCGCGCTCGGCCACGAGGTCTGACCGT  
CAGTGTGCTGACGTCAACGACGAGGCGCTACTTTCCAGCAGCAGGAGTACAGCGTCTCTTGGTGAGAACA  
CCCTCCTGGCACATCTCTGCTACCCCTGCGAGCAACCGACCCGACGTGGGGGCAACGGGCAAGTGACTTATGG  
AGGCGTCTCTAGCGAAAGCTTTTCTCTGGATCCTGACACTGGTGTCTCACGACTCTTCGGGCCCTGGATCGAGA  
GGAACAGGAGGAGATCAACCTGACAGTGTATGCCAGGACAGGGGCTCACCTCCTCAGTTAACGCATGTCACTGT  
TCGAGTGGCTGTGGAGGATGAGAATGACCATGCACCAACCTTTGGGAGTGCCCATCTCTCTCTGGAGGTGCCTGA  
GGGCCAGGACCCCCAGACCTTACCATGCTTCGGGCTCTGATCCAGATGTGGGAGCCAATGGGCAAGTGAGTA  
CCGCATCCTAGATGGGGACCCATCAGGAGCCTTTGTCTAGACCTTGCTTCTGGAGAGTTTGGACCATGCGGCC  
ACTAGACAGAGAAGTGAGCCAGCTTTCCAGCTGAGGATAGAGGCCCGGATGGAGGCCAGCCAGCTCTCAGTGC  
CACGCTGCTTTTGACAGTGACAGTGTGGATGCCAATGACCATGCTCCAGCCTTCTGTGCTGCTACTCGGT  
GGAGGTGCCGGAGGATGTGCTGCGAGGACCTGCTGCTGCGCTACAGGCTCATGACCTGATGCTGGAGCTAA  
TGGCCATGTGACCTACTACCTGGGCGCGGTACAGCAGGAGCCTTCTGCTGGAGCCAGCTCTGGAGAAGTGC  
CACAGCTGCAGCCTTGGACAGAGAACAGTGTCCAGCTACACCTTTTCTGTGAGTGAGTGATGGTGCAGCTGC  
TGGGCCCCCTAAGCACACAGTGTCTGTACCATCAGGTGCGCGATGTCAATGACCATGCACCCACCTTCCCCAC  
CAGTCTCTGCGCTACGTCTGCCCCGCCAGGCCCCAGCTTCAGTACCCCAACCTGGCTCTGGCCACACTGAG  
AGCTGAAGATCGTGATGCTGGTGCCAATGCTTCCATTCTGTACCGGCTGGCAGGCACACCACCTCCTGGCACTAC  
TGTGGACTCTTACACTGGTGAATCCGCGTGGCCCGCTCTCTGTAGCTTAGGCCCCGAGATCGTGTCTCTT  
CATGTGGCCACTGATCTTGGCCGTCCAGCTCGCTCTGCCACTGGTGTGATCATTGTTGGACTGCAGGGGGAAGC  
TGAGCGTGGACCCCGCTTTCCCCGGGTAGCAGTGAGGCTACGATTCTGTGAGAATGCGCCCCAGGGACTCCTAT  
TGTCTCCCCACGGCCGTCCATGCAGGAGGCACAAATGGACCCATCACCTACAGCATTCTCAGTGGGAATGAGAA  
AGGGACATTCTCCATCCAGCCTAGTACAGGTGCCATCACAGTTTCTGCTCAGCAGAGGGGCTAGACTTCGAGGTGAG  
TCCACGGCTGCGACTGGTGTGCGAGGAGAGTGGAGGAGCCTTTGCCTTCACTGTGCTGACCTGACCTGCA  
AGATGCCAACGACAATGCTCCCCGTTTCTGCGGCCCATATGTGGCCTTCTTCTGAGTCCCGGCCCTTGGGA  
GGGGCCCCCTGCTGAGGTGGAGGCGGATGACCTGGATCAAGGCTCTGGAGGACAGATTTCTACAGTCTGGCTGC  
ATCCAGCCGGCACGTGGATTGTTCCAGTAGACCCAACACAGGCACTATCACTACCACAGCCATCCTGGACCG  
TGAGATCTGGGCTGAAACACGGTTGGTGTGATGGCCACAGACAGAGGGAGCCAGCCCTGGTGGGCTCAGCTAC  
CTTGACGGTGATGGTCATCGACACCAATGACAATCGCCCCACCATCCCCCAACCTGGGAGCTCCGAGTGTGAGA

3421/6881  
**FIGURE 3153C**

AGATGCGTTATTGGGCTCAGAGATTGCACAGGTAACAGGGAATGATGTGGACTCAGGACCCGTGCTGTGGTATGT  
GCTAAGCCCATCTGGGCCCCAGGATCCCTTCAGTGTTGGCCGCTATGGAGGCCGTGTCTCCCTCACGGGGCCCCCT  
GGACTTTGAGCAGTGTGACCGCTACCAGCTGCAGCTGCTGGCACATGATGGGCCCTCATGAGGGCTGTGCCAACCT  
CACAGTGCTTGTGGAGGATGTCAATGACAATGCACCTGCCCTTCTCACAGAGCCTCTACCAGGTAATGCTGCTTGA  
GCACACACCCCCAGGCAGTGCCATTCTCTCCGTCTCTGCCACTGATCGGGACTCAGGTGCCAACGGTCACATTTT  
CTACCACCTGGCTTCCCTGCCGATGGCTTCAGTGTTGACCCCAACAATGGGACCCTGTTCAATAGTGGGAAC  
AGTGGCCTTGGGCCATGACGGGTGAGGAGCAGTGATGTGGTGCTGGAAGCACGAGACCACGGGGCTCCAGGCCG  
GGCAGCACGAGCCACAGTGCACGTGCAGCTGCAGGACCAGAACGACCACGCCCCGAGCTTCACATTGTCACTA  
CCGTGTGGCTGTGACTGAAGACCTGCCCCCTGGCTCCACTCTGCTCACCTGGAGGCTACAGATGCTGATGGAAG  
CCGCAGCCATGCCGCTGTGGACTACAGCATCATCAGTGGCAACTGGGGCCGAGTCTTCAGCTGGAACCCAGGCT  
GGCTGAGGCTGGGGAGAGTGCTGGACCAGGCCCCCGGCCTGGGCTGCCTGGTGTGCTTGAACCTCTAGACTT  
TGAAAGCCTGACACAGTACAATCTAACAGTGGCTGCAGCTGACCGTGGGCAGCCACCCCAAAGCTCAGTCGTGCC  
AGTCACTGTCACTGTACTAGATGTCAATGACAACCCACCTGTCTTTACCCGAGCATCTACCGTGTGACAGTACC  
TGAAGACACACCTGTTGGAGCTGAGCTGCTGCATGTAGAGGCCCTGACGCTGACCCTGGCCCTCATGGCCTCGT  
GCGTTTCACTGTGAGCTCAGGCGACCCATCAGGGCTCTTTGAGCTGGATGAGAGCTCAGGCACCTTGCGACTGGC  
CCATGCCCTGGACTGTGAGACCCAGGCTCGACATCAGCTTGTAGTACAGGCTGTGACCCTGCTGGTGCACACTT  
TGCTTTGGCACCACTGACAATTGAGGTCCAGGATGTGAATGATCATGGCCCAGCCTTCCCACTGAACTTACTCAG  
CACCAGCGTGGCCGAGAATCAGCCTCCAGGCACTCTCGTGACCACTCTGCATGCAATCGACGGGGATGCTGGGGC  
TTTTGGGAGGCTCCGTTACAGCCTGTTGGAGGCTGGGCCAGGACCTGAGGGCCGTGAGGCATTTGCACTGAACAG  
CTCAACAGGGGAGTTGCGTGCGCGAGTGCCCTTTGACTATGAGCACACAGAAAGCTTCCGGCTGCTGGTGGGTGC  
TGCTGATGCTGGGAATCTCTCAGCCTCTGTCACTGTGTCGGTGCTAGTGACTGGAGAGGATGAGTATGACCCTGT  
ATTTCTGGCACCACTTTCCACTTCCAAGTGCCCGAAGGTGCCCGCGTGGCCACAGCTTGGGTACGTGCAGGC  
CACAGATGAGGATGGGGGTGCCGATGGCCTGGTCTGTATTCCCTTGCCACCTCTTCCCCCTATTTTGGTATTAA  
CCAGACTACAGGAGCCCTGTACCTGCGGGTGGACAGTCGGGCACCAGGCAGCGGAACAGCCACCTCTGGGGGTGG  
GGGCCGAGCCCGCGGGAAGCACACGGGAGCTGAGGCTGGAGGTGATAGCACGGGGGCTCTGCCTGGTTCCCG  
GAGTGCCACAGTGCCTGTGACCGTGGATATACCCACACCCGCACTGGGCCTGGCACCTGACCTCAACCTGCTATT  
AGTAGGGGCCGTGGCAGCCTCCTTGGGAGTTGTGGTGGTGCTTGCACTGGCAGCCCTGGTCTTAGGACTTGTTCG  
GGCCCGTAGCCGCAAGGCTGAGGCAGCCCTGGCCCAATGTACAGGCAGCACCCCTAGCCAGTGACTCACTGCA  
GAACTGGGCCGGGAGCCACCTAGTCCACCACCTCTGAGCACCTCTATCACCAGACTCTTCCCAGCTATGGTGG  
GCCAGGAGCTGGAGGACCCTACCCCGTGGTGGCTCCTTGGACCCTTCACATTCAAGTGGCCGAGGATCAGCAGA  
GGCTGCAGAGGATGATGAGATCCGCATGATCAATGAGTTCCCCGTGTGGCCAGTGTGGCCTCCTCTCTGGCTGC  
CCGTGGCCCTGACTCAGGCATCCAGCAGGATGCAGATGGTCTGAGTGACACATCCTGCGAACCACCTGCCCCCTGA  
CACCTGGTATAAGGGCCGAAAGGCAGGGCTGCTGCTGCCAGGTGCAGGAGCCACTCTCTACAGAGAGGAGGGGCC  
CCCAGCCACTGCCACAGCCTTCCTGGGGGGCTGTGGCCTGAGCCCTGCACCCACTGGGGACTATGGCTTCCCAGC  
AGATGGCAAGCCATGTGTGGCAGGTGCGCTGACAGCCATTGTGGCCGGCGAGGAGGAGCTCCGTGGCAGCTATAA  
CTGGGACTACCTGCTGAGCTGGTGCCTCAGTTCCAACCACTGGCCAGTGTCTTACAGAGATCGCTCGGCTCAA  
GGATGAAGCTCGGCCATGTCCCCAGCTCCCCGATCGACCCACCACCCCTCATCACTGCCGTGGCCCAACCAGG  
AGCCAAGTCTGTGCCCCCAAGCCAGCAAACACAGCTGCAGCCGGGGCCATCTTCCCACAGCTTCTCACCGCTC  
CCCCATCAGCCATGAAGGCTCCCTGTCTCAGCTGCCATGTCCCCAGCTTCTCACCTCTCTGTCTCCTCTGGC  
TGCTCGCTCACCCGTTGTCTCACCATTGTGGGTGGGCCAGGGTCCCTCAGCCTCAGCACTCAGCGCAGAGTCTGG  
CCTGGAGCCACCTGATGACACGGAGCTGCACATCTAGCTGTGGCCAGGCTGGGCCCCGACCTGGGATGCGCACA  
GTGTCCCCAACGCAGGCCCCACTCTGAGCCTGCCCTGGGCAGCCTCGGACTATGACTGGCTACGGGGAGGCCACC  
ACCAGGCCCCAGCTCTCCACCCTGAACTCCCCAGCCCCCTCAGAGTACTAGGACCACAGAAGCCCTGTTGCTCAC  
TGACCTGTGACCAGGTCCAATGTGGGGAGAAATATGAAGGAGGTAGCAGCCCTGGGTTCTCCTCAGTGAGGGATC  
CCTGCCCTGCACCAGCACCTGAGATGGAGCTGAGACTTTATTATTGGGGGTAGGGGGATGGAGGAGGTCCCTC  
CAACATGTTTGGACCCAGCTCCTTTGGGTTCCACTGACACCCCTGCCCTGCCCTGCCAGAACCAAGTGCCAT  
TTCTCACTCTGGAGCCTTAATAAACTGCAATTTGT

3422/6881  
**FIGURE 3154**

MKAPCPQLPCPPASHPLCLLWLLAHPLSHHLGWPRVPQPQHSASLAWSHLMTRSCCTSSCGPGWAPTWDAHSVPN  
AGPTLSLPWAASDYDWLRGGHHQAPALHPELPSPLRVLGPQKPCCSLTCDQVQCGEKYEGGSSPGFSSVRDPCPA  
PAP.

3423/6881  
**FIGURE 3155**

CTTTTTCGTCTGGGCTGCCAACATGCCATCCAGACTGAGGAAGACCCGGAAACTTAGGGGCCACGTGAGCCACGG  
CCACGGCCGCATAGGCAAGCACCGGAAGCACCCCGGCGGCCGGTAATGCTGGTGGTCTGCATCACCACCGGAT  
CAACTTCGACAAATACCACCCAGGCTACTTTGGGAAAGTTGGTATGAAGCATTACCACTTAAAGAGGAACCAGAG  
CTTCTGCCCCAACTGTCAACCTTGACAAATTGTGGACTTTGGTCAGTGAACAGACACGGGTGAATGCTGCTAAAAA  
CAAGACTGGGGCTGCTCCCATCATTGATGTGGTGCATCGGGCTACTACAAAGTTCTGGGAAAGGAAAGCTCCC  
AAAGCAGCCTGTCATCGTGAAGGCCAAATTCTTCAGCAGAAGAGCTGAGGAGAAGATTAAGAGTGTGGGGGGGC  
CTGTGTCCTGGTGGCTTGAAGCCACATGGAGGGAGTTTCATTAAATGCTAACTACTTTTAAAAA

3424/6881  
**FIGURE 3156**

MPSRLRKTRKLRGHVSHGHGRIGKHKHPGGRGNAGGLHHHRINFDKYHPGYFGKVGMMKHYHLKRNQSFCTVNL  
DKLWTLVSEQTRVNAAKNKTGAAPIIDVVRSGYYKVLGKGKLPKQPVIVKAKFFSRRAEEKIKSVGGACVLVA

3425/6881  
**FIGURE 3157A**

AAGGCATCCAGGATGCGGTGCGGGGCGGCCCGGTGCCCCCGCCCCGTCACGGCAGCCGCGGCGGCCGAGGGGA  
CCGGGCCAGGGCCGGGGGCGGCGGCCGAGCCGCGGTAGCGGCGGCGGCGGGAGGGGCGGCCTGAGGGCGGACGG  
GCGGGCGCCCGGGTTGCGGGGGCTCGGTGCCGCTCCGCACTGCCCGCCGGTCTCGGCCCGCGGCCATGAGTGG  
CGGGCGGCGGAGGGGGCTCGGCGCCCAGTCGCTTCGCCGACTACTTTGTCACTGCGGACTGGACACGGAGAC  
CGGGCTGGAGCCGACGAGCTGTGCGCATTATGCCAGTACATACAGGCTTCTAAAGCCAGGGATGGTGCCAGCCC  
TTTCATTTCAAGTACGACTGAAGGAGAAAATTTGAGCAGACACCATTGAGAAGAACATTCAAATCTAAGGTCTT  
TGCACGATATCCTGAGAACGTAGAATGGAATCCCTTTGACCAAGATGCAGTAGGAATGCTATGTATGCCGAAAGG  
GCTGGCATTCAAGACCCAGGCTGATCCCAGGGAGCCCCAATTCCATGCCTTTATTATCACAAGGGAGGATGGCTC  
TCGGACATTTGGGTTTGCCCTCACATTTTATGAAGAGGTGACTAGCAAGCAGATCTGCAGTGCAATGCAGACCTT  
CTACCACATGCACAATGCTGAGTATGATGTCCTACATGCTCCCCCTGCTGATGACAGAGACCAGAGCAGCATGGA  
GGATGGTGAAGACACTCCTGTGACCAAACTGCAGCGCTTCAACTCCTATGACATTAGCCGGGACACTCTCTACGT  
CTCTAAGTGCATCTGCCTCATCACCCCATGTCTTTCATGAAGGCATGTGCGAGCGTCTGGAGCAACTCCACCA  
GGCAGTCACTTCACTCAGCCCCCTCCACTGCCCTTGAGAGCTACATATAACGTAAGTCTACGAGGTGCCGCT  
CCCACCTCCTGGCCGGTCTTGAAGTTTTCTGGGGTCTATGGGCCAATAATCTGCCAGAGACCAAGTACCAATGA  
GCTTCCCCTATTTGACTTTCTGTCAAAGAGGTTTTGAAGTCTCGGGGTGGAGAAATGTGTTTCAGCTTTTAC  
TTGTGCCCTTCTGGAGTTTCAAATCCTGCTCTACTACAGCAATTACCAGAGACTGATGACTGTGGCGGAGACGAT  
TACAGCTCTCATGTTTCTTCCAGTGGCAGCATGTCTATGTCCCTATTCTCCAGCTTCTCTCCTGCATTTCTT  
AGATGCTCCTGTTCCATACCTGATGGGTTTGATTCCAATGGCCTGGATGACCGGTCAAAGCTGGAGCTGCCTCA  
AGAGGCTAACCTCTGCTTTGTGGACATTGACAACCACTTCATTGAGTTGCCAGAGGACTTGCCACAGTTCCCCAA  
CAAATTGGAGTTTGTCCAGGAAGTCTCTGAGATTCTCATGGCATTGGAATCCCCCTGAAGGGAATCTTCATTG  
CAGTGAGAGTGCCTCCAAGCTGAAGAGGCTGCGGGCTCTGAGCTTGTCTCGGACAAGAGGAATGGGAACATTGC  
TGCTCCCCTTTGCATTCCTACGAGCTTCTTAAGGAGAATGAACTATTGCCCGGCTGCAAGCCTTGGTCAAGAG  
AACTGGGGTGAGCTTGAAAAGTTGGAAGTGCCTGAAGACCCAGCAGCAATAAGGATCTCAAAGTTCAAGTGTGA  
TGAAGAAGAACTCAGGATTTACCAGCTAAACATTAGATCCGGGAAGTTTTTGCAAATCGTTTCACTCAGATGTT  
TGCAGATTATGAGGTGTTTGTTCATCAACCCAGCCAGGATAAGGAATCCTGGTTTACCAACAGGGAGCAAATGCA  
AACTTTGATAAAGCATCTTTCTGTGATCAGCCTGAGCCCTACCTGCCCTTCTCTCAAGATTCTTGGAGAC  
CCAGATGTTTGCATCTTTCATTGACAACAAAATAATGTGTCATGATGATGATAAAGACCCTGTACTCCGGGT  
ATTTGATTCCCGAGTTGACAAGATCAGGCTGTTGAATGTTGCGACACCTACTCTCCGTACATCCATGTACCAGAA  
GTGTACCACTGTGGATGAAGCAGAGAAAGCAATTGAGCTGCGTCTGGCAAAAATTGACCATACTGCAATTCACCC  
ACATTACTTGACATGAAGATTGGACAAGGGAAATATGAGCCGGGCTTCTTCCCTAAGCTGCAGTCTGATGTACT  
TTCCACTGGGCCAGCCAGCAACAAGTGACGAAAAGGAATGCCCTGCCAGTGAGGCGGAAAGATCGGCAGAA  
GCAGCACACAGAACACCTGCGTTTAGATAATGACCAGAGGGAGAAAGTACATCCAGGAAGCCAGGACTATGGGCAG  
CACTATCCGCCAGCCCAACTGTCCAACCTCTCTCCATCAGTGATTGCCAGACCAATTGGAAGTTTGTAGAGGG  
CCTGCTGAAGGAATGCCGCAATAAGACCAAGAGGATGCTGGTGGAAAAGATGGGCCGAGAAGCTGTGGAGCTAGG  
GCATGGGGAGGTGAACATCACAGGGGTGGAAGAGAACACCTGATTGCCAGCCTTTGTGATCTCCTGGAAAGGAT  
CTGGAGTCATGGACTACAAGTGAAACAGGGGAAATCAGCCTTATGGTCCCACCTGTTACATTATCAGGACAACCG  
GCAGAGAAAACCTCACATCAGGAAGCCTCAGTACCTCAGGAATACTTCTTGATTGAGAACGTAGGAAGTCTGATGC  
CAGCTCACTCATGCCTCCCTGAGGATCTCCCTGATTGAGGATATGAGGCACATCCAGAACATCGGGGAGATCAA  
GACTGATGTGGGATAGGCAGAGCATGGGTGCGACATGTCTGGAAGAAAGTTACTTTTACAGACCTGAGCAGCTC  
TCTCAGACATGAGCTCACAAAAGTTATATAAGCGCTATGCCTTCTGCGCTGTGATGACGAGAAGGAGCAGTTC  
CTCTATACCTCCTGTCTTCAATGCCGTCGATTACTTTTGCTTACCAATGTCTTCAAACTATCCTGATCCCG  
TACCACATTCTGATCGTACCAAGCAAGAAGCTGGGGGGCTCCATGTTCACTGCCAACCCATGGATCTGTATATCA  
GGAGAATTGGGTGAGACACAGATCATGCAGATTCCCAGGAATGTGCTAGAGATGACCTTCGAGTGCCAGAACTTG  
GGGAAGCTTACTACTGTCCAGATTGGCCATGATAACTCTGGGCTGTAATGCAAAATGGCTGGTGGAGTATGTGATG  
GTCAGGAATGAGATCACAGGACATACCTACAAGTTCCCGTGTGGCCGGTGGTTAGGGAAGGGCATGGATGATGGA  
AGCCTGGAGCGGATCCTAGTTGGGGAGCTGCTCACATCCCAGCCTGAGGTGGATGAGAGGCCATGCCGACCCCG  
CCGCTGCAGCAGTCCCCAGTGTATCCGGAGGCTTGTTACCATCTCACCCAACAACAAGCCCAAGCTGAACACT  
GGGCAGATCCAGGAGTCCATCGGGGAGGCAGTCAATGGCATTGTGAAGCACTTCCATAAGCCTGAGAAAGAGCGA

3426/6881  
**FIGURE 3157B**

GGCAGTCTGACGCTGTTGCTCTGTGGAGAGTGTGGCCTTGCTCTCGGCCTTGGAACAGGCTTTCCAGCATGGATTT  
AAATCGCCCCGGCTCTTCAAAAATGTCTTCATTTGGGATTTCTTGGAAGCACAACCTATTATGAGACATTA  
GAGAAGAATGAAGTAGTCCCTGAGGAAAAGTGGCATAACAAGAGCCCGAACTTCTGCCGATTTGTCACTGCAATC  
AACAATACTCCCCGGAACATCGGCAAGGATGGCAAGTTTCAGATGCTGGTGTGCTTGGGAGCCAGAGATCACCTC  
CTACACCACTGGATTGCCCTGCTGGCTGACTGCCCCATCACTGCACACATGTATGAGGATGTGGCACTGATCAA  
GACCATACTTGTCAATTCTTGATTTCGTGTGCTGCAGACATTGCAGGAGTTCAACATCACGCTGGAGACGTCC  
CTTGTCAAGGGCATCGACATCTGACCTCCCAGCACCAGCCAGCAGCAGGACTGAGAAAGACTCACCTGCAGCTC  
TGACCTTTTTTCCCAAAGGGACTTAAGCGATTGTGCAGGAGTAGGAGACAAAATGTACACTCACTGTAAAAAGAA  
AACTAGAGGATTTTGGAAATAAATAATCTATTTTAGAGTTTATTTGCTGATTTGCTTTTACACACTTTCATGTG  
AAAGAGTGATAGGGAGAGGGAGCGAGGCTGGTGCCGCTATTTTGAAGCTGGTGCCCTCCCTCGCCGTGGCCACA  
TGCTGGAACCTGAGGCCTCCCTGGACTGAGCCTGTGCACTGCGTGCGGGACAGTTATGTTTCTTGCCCCGTGCGC  
ATTAATGAGGCCCTTCCACATCATTTTAACTAATGTTTTCTATATTAACATTATTATGGATATTTGGCTTTC  
ATAGGCCACACACAGGTGTGCTGCGCGGAAGCCCCATGCTCCAATCAAAGGGATTTTAGTAGTGCCTCTAAGC  
AAGCACCGATGAGTCAGTCCCACGTATTTTCTTTTTTGTGAGTATTGTTTGGGAAGGAGACATGCCGGGATGTGT  
CATCGTGCCAAATACCACATTTCTGTTGGCACAGTTTCACAGAAGTAAACATAAGCATGTTTAAACAGGTTTTT  
CTTTTCTTTTTTCTTTTTTAAATGTTTTATTTATTTAACCCGCCATTGTGTGTTTTTAAGTATTTTCTTTTTT  
AAGGAAAGGAAAAGCTTGTCACAATCTAACTGGCTATGTTATTATTATTAAATTTATGTTTGAACCTTAGAAAC  
CAGCTACAGTATGGCCCACTTAATAAAACACCTGAAAC

3427/6881  
**FIGURE 3158**

MSGGGGGGSAPSRFADYFVICGLDTETGLEPDELSALCQYIQASKARDGASPFISSTTEGENFEQTPLRRTFKS  
KVLARYPENVEWNPFDDQDAVGMLCMPKGLAFKTQADPREPQFHAFIITREDGSRTFGFALTIFYEVTSKQICSAM  
QTLYHMHNAEYDVLHAPPADDRDQSSMEDGEDTPVTKLQRFNSYDISRDTLYVSKCICLITPMSFMKACRSVLEQ  
LHQAVTSPQPPPLPLESYIYNVLYEVPLPPPGRSLKFSGVYGP IICQRPSTNELPLFDFPVKEVFELLGVENVFQ  
LFTCALLEFQIILYSQHYQRLMTVAETITALMFPFQWQHVVYPILPASLLHFLDAPVPYLMGLHSNGLDDRSKLE  
LPQEANLCFVDIDNHFIELPEDLPQFPNKLEFVQEVSEILMAFGIPPEGNLHCSESASKLKRLRASELVSDKRNG  
NIAGSPLHSYELLKENETIARLQALVKRTGVSLEKLEVREDPSSNKDLKVQCDEEELRIYQLNIQIREVFANRET  
QMFADYEVFVIQPSQDKESWFTNREQMNFQDKASFLSDQPEPYLPFLSRFLETQMFASFIDNKIMCHDDDDKDPV  
LRVFDSDVDKIRLLNVRTPTLRTSMYQKCTTVDEAEKAIELRLAKIDHTAIHPHLLDMKIGQGYEPGFFPKLQS  
DVLSTGPASNKWKTRNAPAQWRRKDRQKQHTHLRLDNDQREKYIQEARTMGSTIRQPKLSNLSPSVIAQTNNKF  
VEGLLKECRNKTKRMLVEKMGREAVELGHGEVNITGVEENTLIASLCDLLERIWSHGLQVKQKSALWSHLLHYQ  
DNRQRKLTSGSLSTSGILLDSERRKSDASSLMPLRISLIQDMRHIONIGEIKTDVG



3428/6881

**FIGURE 3159**

CGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAG  
GCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACATATATGCGAATCTATAAGAAAGCTGATATTGTAGACAT  
CAAGGGAATGGGTACTGCTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAATGT  
TACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAAGGTGCG  
TATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACACGTGAAGGAAAATGATCAGAAAAAGAA  
AGACGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTGAG  
AACCAACGGGAAGCAGCCTGAGCTGCTGGAACCTATTTCTATGAATTCATGGCATAATAGGTGTTAAAAA  
AATAAAGGACCTCTGGGCTGTAAAAAATAAATAAAGAAAAAAGAAAAAAGAAAAA  
AA

3429/6881  
**FIGURE 3160**

MTNTKGKRRGTRYMFSRPFRKHGVVPLATYMRIYKKADIVDIKGMGTAQKGMPHKCYHGKTGRVYNVTQHAVGIV  
V NKQVKGKILAKRIKVRIEHIKHSKSRDSFLKHVKENDQKKKDAKEKGTWVQLKRQPAPPREAHFVRTNGKQPEL  
LEPISYEFMA

3430/6881  
**FIGURE 3161A**

CGGGAGGTTGAGGGGCGTCCGAGGCGCGGAGGGGCTGGCTGGGCAGGAGGGGTTGGCGGGGCAGCAGGGCCGCGG  
CCATGGGGAGCTTGAAGGAGGAGCTGCTCAAAGCCATCTGGCAGGCCTTCACCGCACTCGACCAGGACCACAGCG  
GCAAGGTCTCCAAGTCCCAGCTCAAGGTCCTTTCCCATAACTGTGCACGGTGCTGAAGGTTCTCATGACCCAG  
TTGCCCTTGAAGAGCACTTCAGGGATGATGATGAGGGTCCAGTGCCAACCAGGGCTACATGCCTTATTTAAACA  
GGTTCATTTTGAAAAGGTCCAAGACAACCTTGACAAGATTGAATTCATAGGATGTGTTGGACCCCTCTGTGTCA  
AAAAAACCTCACAAAGAATCCCTGCTCATTACAGAAGAAGATGCATTTAAATATGGGTTATTTTCAACTTTT  
TATCTGAGGACAAGTATCCATTAATTATTGTGTGAGAAGAGATTGAATACCTGCTTAAGAAGCTTACAGAAGCTA  
TGGGAGGAGGTTGGCAGCAAGAACAATTTGAACATTATAAAATCAACTTTGATGACAGTAAAAATGGCCTTTCTG  
CATGGGAACCTATTGAGCTTATTGAAAATGGACAGTTTAGCAAAGGCATGGACCGGCAGACTGTGTCTATGGCAA  
TTAATGAAGTCTTTAATGAACCTATATTAGATGTGTTAAAGCAGGGTTACATGATGAAAAAGGGCCACAGACGGA  
AAAACCTGGACTGAAAGATGGTTGTACTAAAACCCAACATAATTTCTTACTATGTGAGTGAGGATCTGAAGGATA  
AGAAAGGAGACATTCTCTTGATGAAAATTGCTGTGTAGAGTCCCTGCCTGACAAAGATGGAAGAAAATGCCTTT  
TTCTCGTAAAAATGTTTTGATAAGACTTTTGAATCAGTGCTTCAGATAAGAAGAAGAAAACAGGAGTGGATTCAAG  
CCATTCTTCTACTATTCTGTGTAAGCTGGGCAGCCCTCCACCACACAAAGAAGCCCGCCAGCGTCGGAAAAG  
AACTCCGGAAGAAGCAGCTGGCTGAACAAGAGGAACTGGAGCGACAAATGAAGGAACCTCCAGGCCGCCAACGAAA  
GCAAGCAGCAGGAGCTGGAGGCCGTGCGGAAGAACTGGAGGAAGCAGCATCTCGTGCAGCAGAAGAGGAAAAGA  
AACGCCCTTCAGACTCAAGTGGAACTTCAGGCCAGGTTTCAGCACAGAGCTGGAAAGAGAGAAGCTTATCAGACAGC  
AGATGGAAGAACAGGTTGCTCAAAGTCCCTCTGAACCTGGAACAGTATTTACAGCGAGTACGGGAGCTGGAAGACA  
TGTACCTAAAGCTGCAGGAGGCTCTGAAGATGAGAGACAGGCCCGGCAAGATGAAGAGACAGTGCGGAAGCTTC  
AGGCCAGGTTGTTGGAGGAAGAGTCTTCCAAGAGGGCTGAAGTAGAAAAGTGGCACTTGGAGCAGCAGCAGGCCA  
TTCAGACAACCGAGGCGGAGAAGCAGGAGTTGGAGAATCAGCGTGTCTGAAGGAACAGGCCCTGCAGGAGGCCA  
TGGAGCAGCTGGAGCAGCTTGAAGTAGAACGGAAGCAAGCACTTGAGCAGTACGAGGAAGTTAAAAAGAGCTGG  
AGATGGCAACTAATAAGACCAAGAGCTGGAAGGACAAAGTGGCCCATCATGAAGGATTAATTCGACIGATAGAAC  
CAGGTTCAAAGAACCCTCACCTGATCACTAACTGGGGACCTGCAGCTTTCACTGAGGCAGAACTTGAAGAGAGAG  
AGAAGAACTGGAAGAGAGAAAAGACCACGGAGTGACTGAGCTTGCTGGCAGTCACGTGAGTTATGTAGATACTGC  
ATGGCAGGAGAGCTTTACGCTAAAGACAAAAGAAACAGCTTTGGGGGCGGGCGTGGTGGCTCACGCCTGTAATC  
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTTCAGGAGTTCAAGAGCAGCCTGGCCAACCTGGTGA  
AACCCTGTCTCTACTAAAAATACAAAAAAATAGCTGAGCGTGGTGGCGGGCGCCTGTAATCCCAGCTACTTGG  
GAGGCTGAGGCAGGAGAATCACTTGAACGTGGGAGGCGGAGGTTGCAGCGAGCTGAGATCATGCCGTTGTACTCC  
AGCTTGGGCAACAGAGTGAGACTCCATCTCAAAACAAAACAAAACAAAACAAAACAAAACAAAACCCGGCTTTGCTG  
CTTTTAACTCTTCTCTCTTCTGTGCCTCTCTAAGTGGGTCAGTATCCTAAGGAAGCCTTCTTATTTATCTTCTG  
CAAACAAGGGTTACCTGAAAAGAAAAAAAGTCAACATTGTCAAGCTGTTTGTCTTCTTCTTGAACAT  
CACCTTCTGAAATTTGTCTTTTAGCTCTCTCAGATTCTTCCCCAAATGAGGCAGGGTGCAGACAGCACAGTCAGC  
TCTGCAGAGTTTGGAGGGGCTCACTGCCACTGGGTACTCAGAACCTCTGTGGACTGGATGTCAGCTCTTTCCTT  
GGCAGCGTGTTCCTTTTCCGAGTATGTGCTGTAAACTAGATTGGCCGGTTCGCTTTCCATTTCCTGACACTTG  
ACATGGAATGCCTTTGACCATTGGTGCTCTGACAGAGAAGTCATGGAGTCATTGCCATTTCCCTGGTTGCCCTTT  
GGAATGTGATCCTGTTAGTAGAGGTTTTCTAGCTTCTACTAAGATATTTCTTCCCTAACCATCATACACTTGGC  
ATGTTTCATTCCCATCTCCTTTCCCCTCACCTTAAAGGAGACTACCCCTTTGCCCCATATTGTCAACCTAATTT  
CTCTCGTACTCTCTCTAGTGAATGATGTGCTACCAAGTATATGCCAGGCTGTGAGAGGATTACTGAGTAGTAG  
AAAGAAGCTAATTTGAAATAAAAAATTTTGTATAATTAAGAAAGCAGATTAGATGCACATGGTCAACAGGAAGT  
TGACTGTATGTCTGCTAGTTAGATTCAAACATCATAAAGATGATAGCATGTCAATATATTAGCCTAGCCATTAT  
GTTAGCCTTTGTTAGGTGGGCAGCTTTTCTGCTTTTCCCTTCTCTGTGGTGACAACGGAGGAAATATCCAACA  
GAAATACGTCTAACAGGGAAATTTGGGATCATAGTTTATATGCATCTGATTGAAAGGAGTATTGAGGAAGGTTT  
CATATATGATCTATCTTTGGATTAAAAAGAACATTTATGAAATCAAGCCTTCTAACACTAGTTATAATTGAGAAG  
CAACAGTAACTCCGTGGACAGCAATCAAGCTTAAATTTGTAATAAATATGGGATAATTCAAGTTGTTGCAAAAA  
AAGGGCAGAATTCAAGTAGAATAAAGTCTTTTCTCTTACAGGTATTAAATGAGGACAGAGAACCTCAGGTGTCT  
TATGCTAGTGCTTGCTGAGTGCTACTAAGAAAGCAATTCAAATAGATGTATACATCTAGAGAGAGTGGTATTA  
GAGATTCAAGTGTATGTATTTATTTACATGAGAGGAACTGGAATATAATCCCATAAATTATCACCTTTTATGACT

3431/6881  
**FIGURE 3161B**

GGAAATATTTGCCAATGAAGAAATGGTCTGTAGGTATTTGTCTTAAGATTTTGGCTGTTAATAAAATGTAA  
CTTTAACGGTTTCTTATAGTTGCCTTTATAAAGTGATTGTCTAAAATATTTTGTATCATGTGCCTTTGAAATT  
TGACAGCTGATTTGGGTGTTGGATTTCTGCCAGCCATTTATCAGTATTATCATTTTATTCAGTAGCTGGCAGGT  
GTATTAGACCAACGAGACTTAGGTAAGGAATGGAACCTTTCCTGTGGTTTACTGCACATTACACCAGAAGACTC  
CAGTATCCCTCATTCCAGAATGAGGAAAAAGTATTCTACAAAGAACCTAATCACCTCTGTGAAATCTATGGGATG  
GAAACAGTGTGGCCTTAGGAGTCAAATAGTCTCTGCATGGTGGGGAGGATCATGATGGAATATGTGAATTTCTAC  
TTCTAGAAGTTGTGAAATAGGTCTGCACTTTGCAGAATGTCTTCTTTAAACCTGGCTTATCCACAGCTGTA  
GCTGATAACATGACCTGGGGCTTAGCTGCTCTAGCCCTGGGTCTTGGAGACCTCACACTGCCCTGGCCCCCTGGCC  
ATCCACCTAAGGACTGCCTGCTTTCTGGTCACATGTGGACCTTGATACGACTAAGCGGTTACATATGTGGTTGTG  
CAAAAGCTTTCTGTTTAAATGCATAGTGTACCGATTTACATCTTGGTTTTTCACTGGCACTATGTCTAGGAGGCAA  
TATCCTTTTAAACAGTGCCTTGGCTAAGATAGATACTTGTGAATCAAAGATAGCACAGAAATGAACTAAGTATAT  
CCCATTGGGAATTATATTTTGATACTATTTAAATGGTTTCACCTGTTAAAGGGCCAACAGAACTCTTGGTTTTA  
CTTTTGTAATTACTGTACAGAAAATTTCAAGAGTGTGTGAGTGTCTGTCATCAGGTGTTTTCTTAATAAGTAGG  
GATATGATCATTTACAGGAATTATATATGAAAAAGTTTTTGAAATGTATTTTGTGATGTGCTATGTTGAGGGG  
AAACCAATATTTATGATTTTAAACATTTCGTATGAAAACATTGTACAATGTAATATGCTCAACTTTCTCAATTT  
TTTGCTAATTTTCTAAGATACATTAAAAATGTTTATATTTTTTTTAAAGTAAATGGACCCAGTAAGAAAATT  
AAAAATACCAGAACATACACTT

3432/6881  
**FIGURE 3162**

MGSLKEELLKAIWHAFTALDQDHSGKVSQSOLKVLSHNLCTVLKVPHPDPALEEHFRDDDEGPVSNQGYMPYLN  
FILEKVQDNFDKIEFNRMCTLCVKKNLTKNPLITEEDAFKIWVIFNFLSEDKYPLIIVSEEIEYLLKKLTEAM  
GGGWQQEQFEHYKINFDDSKNGLSAWELIELIGNQFSGMDRQTVSMAINEVFNELILDVLKQGYMMKKGHRRK  
NWTERWFVLKPNIISYYVSEDLKDKKGDILLDENCCVESLPDKDGKKCLFLVKCFDKTFEISASDKKKKQEWIQA  
IHSTIHLLKLGSPPPHKEARQRRKELRKKQLAEQEELERQMKELQAANESKQEQLEAVRKKLEEAASRAAEEKK  
RLQTQVELQARFSTELEREKLIQQMEEQVAQKSSELEQYLQVRVRELEDMYLLKQEALEDERQARQDEETVRKLQ  
ARLLEEESKRAELEKWHLEQQQAIQTTEAEQELENQRVLKEQALQEAMEQLEQLELERKQALEQYEEVKKKLE  
MATNKTTSWKDKVAHHEGLIRLIEPGSKNPHLITNWGPAAFTAELEEREKNWKEKKTE

3433/6881  
**FIGURE 3163A**

CAGCAGTGAGTCGGAGCTCTATGGAGGTGGCAGCGGGTACCGAGTGGCGGCTGCAGCAGCGACTCCTCTGAGCTG  
AGTTTGAGGCCGTCCCCGACTCCTTCCCTCCCTTCCCTCCCTTTTTTTTGTTCGGTCCCTTTCCCTC  
CCTTCCCTATCCCCGACGACCGGATCCTGAGGAGGCAGCTGCGGTGGCAGCTGCTGAGTTCTCGGTGAAGGTATT  
TCATTTCTCCTGTCCCTCCCTCCCTCCCTACCCATCTATTAATATTATTCTTTTGAAGATTCTTCGTGTCAAGCC  
GCCAAAGTGAGAGTGCGATTGCAGAAGGGGTGCTTCTCGTTTCAGTGCTTCTTCGGGCGGAGGAGGAAGTAGG  
GGTGACCTCAGCACTATCCCAAGACTGCTGGCAACAGCGAGTTCCTGGGGAAAACCCAGGGCAAACGCTCAG  
AAATGGATTCTGCACGAAGCACTAGACGAGATGACAACCTCCGAGCAAACAACCTCCGCAAACGAAAAAGAACGA  
CATGATGCAATCTTCAGGAAAGTAAGAGGCATACTAAATAAGCTTACTCCTGAAAAGTTTGACAAGCTATGCCTT  
GAGCTCCTCAATGTGGGTGTAGAGTCTAAACTCATCCTTAAAGGGTCATACTGCTGATTGTGGACAAAGCCCTA  
GAAGAGCCAAAGTATAGCTCAGTGTATGCTCAGCTATGTCTGCGATTGGCAGAAGATGCACCAAACCTTTGATGGC  
CCAGCAGCAGAGGGTCAACCAGGACAGAAGCAAAGCACCACATTAGACGCTCCTAATTTCCAAATTACAAGAT  
GAATTTGAAAACCGAACTAGAAATGTTGATGTCTATGATAAGCGTGAAAATCCCTCCTCCCGAGGAGGAGGAA  
CAGAGAGCCATTGCTAAGATCAAGATGTTGGGAAACATCAAATTCATTGGAGAGCTTGGCAAGCTTGATCTTATT  
CACGAATCTATCCTTCATAAGTGCATCAAACACTTTTGGAAAAGAAGAAGAGAGTCCAACTCAAAGATATGGGA  
GAGGATTTGGAGTGCCTCTGTGAGATAATGAGGACAGTGGGACCTAGATTAGACCATGAACGAGCCAGTCTCTTA  
ATGGATCAGTACTTTGCCCCAATGTGCTCCTTGATGTTAAGTAAGGAATTGCCAGCAAGGATTTCGTTTCTGTCTG  
CAGGATACCGTAGAGTTGCGAGAACACCATTGGGTTCTCGCAAGGCTTTTCTTGACAATGGACCAAAGACGATC  
AATCAAATTCGTCAAGATGCAGTAAAAGATCTAGGGGTGTTTATTCCTGCTCCTATGGCTCAAGGGATGAGAAGT  
GACTTCTTTCTGGAGGGACCGTTCATGCCACCCAGGATGAAAATGGATAGGGACCCACTTGGAGGACTTGCTGAT  
ATGTTTGGACAAAATGCCAGGTAGCGGAATTGGTACTGGTCCAGGAGTTATCCAGGATAGATTTTACCCACCATG  
GGACGTCATCGTTCAAATCAACTCTTCAATGGCCATGGGGGACACATCATGCCTCCACACAATCGCAGTTTGGGA  
GAGATGGGAGGCAAGTTTATGAAAAGCCAGGGGCTAAGCCAGCTCTACCATAACCAGAGTCAGGGACTCTTATCC  
CAGCTGCAAGGACAGTGAAGGATATGCCACCTCGGTTTTCTAAGAAAGGACAGCTTAATGCAGATGAGATTAGC  
CTGAGGCCCTGCTCAGTTCGTTTCTAATGAATAAAAAATCAAGTGCCAAAGCTTCAGCCCCAGATAACTATGATTCCT  
CCTAGTGACACAACCACCACGCACTCAAACACCACCTCTGGGACAGACACCTCAGCTTGGTCTCAAACTAATCCA  
CCACTTATCCAGGAAAAGCCTGCCAAGACCAGCAAAAAGCCACCACCGTCAAAGGAAGAACTCCTTAACTAACT  
GAAACTGTTGTGACTGAATATCTAAATAGTGGAAATGCAAATGAGGCTGTCAATGGTGTAAAGAGAAATGAGGGCT  
CCTAAACACTTTCTTCTGAGATGTTAAGCAAAGTAATCATCTGTCACTAGATAGAAGCGATGAAGATAAAGAA  
AAAGCAAGTTCTTTGATCAGTTTACTCAAACAGGAAGGGATAGCCACAAGTGACAACCTTCATGCAGGCTTTCTCTG  
AATGTATTGGACCAAGTGTCCCAAACCTGGAGGTTGACATCCCTTTGGTGAAATCCTATTTAGCACAGTTTCAGCT  
CGTGCCATCATTTCAGAGCTGGTGAGCATTTCAGAAGTAGCTCAACCACTAGAAAGTGGCACCCATTTTCTCTC  
TTCCTACTTTGCTTCAGCAGTTAGCTAAATTACAAGATCGAGAATGGTTAACAGAACTTTTTCAACAAAGCAAG  
GTCAATATGCAGAAAATGCTCCCAGAAATGATCAGAATAAGGACCGCATGTTGGAGATTTTGGAAAGGAAAGGGA  
CTGAGTTTCTTATTTCCACTCCTCAAATTGGAGAAGGAAGCTGTTGAAGCAAATAAAGTTGGATCCATCCCCTCAA  
ACCATATATAAATGGATTAAAGATAACATCTCTCCCAAACCTCATGTAGATAAAGGATTGTGAACATCTTAATG  
ACTAGCTTCTTACAGTACATTTCTAGTGAAGTAAACCCCCCAGCGATGAAACAGATTATCCTCTGCTCCTTCC  
AAAGAACAGTTAGAGCAGGAAAAACAACCTACTACTATCTTTCAAGCCAGTAATGCAGAAATTTCTTCATGATCAC  
GTTGATCTACAAGTCAGTGCCCTGTATGCTCTCCAGGTGCACTGCTATAACAGCAACTTCCCAAAGGCATGTTA  
CTTCGCTTTTTTGTGCACTTCTATGACATGGAAATTATTGAAGAAGAAGCTTTCTTGGCTTGGAAAGAAGATATA  
ACCCAAGAGTTTCCGGGAAAAGGCAAGGCTTTGTTCCAGGTGAATCAGTGGCTAACCTGGTTAGAACTGCTGAA  
GAAGAAGAATCAGAGGAAGAAGCTGACTAAAGAACCAGCCAAAGCCTTAAATTGTGCAAAACATACTGTTGCTAT  
GATGTAAGTGCATTGACCTAACCACTGCGAAAATTCATTCCGCTGTAATGTTTTACAATATTTAAAGCAGAAG  
CACGTCAGTTAGGATTTCTTCTGCATAAGGTTTTTTGTAGTGTAAATGCTTAATCATAGTCTACCATCAAATA  
TTTTAGGAGTATCTTTAATGTTTAGATAGTATATTAGCAGCATGCAATAATTACATCATAAGTTCTCAAGCAGAG  
GCAGTCTATTGCAAGGACCTTCTTTGCTGCCAGTTATCATAGGCTGTTTAAAGTTAGAAAACCTGAATAGCAACAC  
TGAATACTGTAGAAATGCACCTTGGCTCAGTAATACTTGAGTTGTTGCAATATTTGATTATCCATTTGGTTGTAC  
AGAAAAATCTTAAGTGAATTGATGGTTGTTGCCGTAATAGTATATTGCCTGTATTCTACCTCTAGTAATGGG  
CTTTATGTCTAGATTTTAAATATCCTTGAGCCTGGGCAAGTGCACAAGTCTTTTTAAAGAAACATGGTTTACTT

3434/6881  
**FIGURE 3163B**

GCACAAACTGATCAGTTTTGAGAGATCGTTAATGCCCTTGAAGTGGTTTTTGTGGGTGTGAAACAAATGGTGAG  
AATTGAATTGGTCCCTCCTATTATAGTATTGAAATTAAGTCTACTTAATTTATCAAGTCATGTTTCATGCCCTGA  
TTTTATATACTTGTATCTATCAATAAACATTGTGATACTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3435/6881  
**FIGURE 3164**

VESAIAEGGASRFSASSGGGSRGAPQHYPKTAGNSEFLGKTPGQNAQKWIPARSTRRDDNSAANNSANEKERHD  
AIFRKVRGILNKLTPEKFDKLCLELLNVGVESKLILKGVILLIVDKALEEPKYSSLYAQLCLRLAEDAPNFDGPA  
AEGQPGQKQSTTFRRLISKQDEFENRTRNVVDYDKRENPLLPEEEEQRAIAKIKMLGNIKFIGELGKLDLIHE  
SILHKCIKTLLEKKRVQLKDMGEDLECLCQIMRTVGPRLDHERAKSLMDQYFARMCSLMLSKELPARIRFLLQD  
TVELREHHWVPRKAFLDNGPKTINQIRQDAVKDLGVFIAPMAQGMRSDDFFLEGPFMPPRMKMDRDPGLGLADMF  
GQMPGSGIGTGPGVIQDRFSPTMGRHRSNQLFNHGGGHIMPPTQSQFGEMGGKFMKSQGLSOLYHNQSQGLLSQL  
QGQSKDMPPRF SKKGQLNADEISLRPAQSFLMNKNQVPKLQPQITMIPPSAQPPRTQTTPPLGQTPQLGLKTNPPL  
IQEKPAKTSKKPPPSKEELLKLTETVTEYLNsgNANEAVNGVREMRAPKHFLPEMLSKVIIISLDRSDEDKEKA  
SSLISLLKQEGIATSDNFMQAFNLVLDQCPKLEVDIPLVKSylaQFAARAIISELVSISELAQPLESGTHFPLFL  
LCLQQLAKLQDREWLTELFQQSKVNMQKMLPEIDQNKDRMLEILEGKGLSFLFPLLKLEKELKQIKLDPSPQTI  
YKWIKDNISPKLHVDKGFVNILMTSFLQYISSEVNPPSDETDSSAPSKEQLEQEKQLLLSFKPVMQKFLHDHVD  
LQVSALYALQVHCYNSNFPKGMLLRFFVHFYDMEIEEEAFLAWKEDITQEFPGKGKALFQVNQWLTWLETAEED  
ESEEEAD



3436/6881  
**FIGURE 3165**

AGCTCTTTGTTCTCCAAGCAGGAAGGCGGCCTCCTGCCCACCCGCGCCTCCAAGCGGGCCCCCTCCTGCACCAT  
AAATCCCCCGGGACTGACAACCGCCTCGCCACGGCCTCCTCTGCTGACAAAAGGGGCAGAAATCATCACTCTCT  
CTTTCTCCCCGACGAAGGGCAGCCCTGCGGACTCCAGGTCTTACACACCTCCCCGCGGGAGGCCAGGCTCCG  
GGACGCCTGCGGTTCCCTGGTCCCGGCCAACGGCCTGGCCTTCCCTGCCGGCCCGGTGCCTCCCGCCACGGCG  
CTAGCGGTCCGAGCCAGCTCCCTGCGCGTCCGAGCACAGCCGTGCCTCGGTCCGCCACGGCCTCGTCCCTGCAG  
GCGTCCGCCATCCGGCCATGACCGCACGGCGGCCTGGCCAACACTGACGTTTTCTTCTACTCCGTGAGCAACAG  
GAAGAGAGAACAAAAGCCAAGACTTTCAGGTATCTGAAGCGCAGAGGAAATGCTAAAAAGGGTCGCCCCACCC  
GGCTCCGCCTGCGGCCGCCATTTTGTACCACTCGAGAAGAAGCGACCAGGGACGGCGGCCATTTTAGAGCGCTCC  
ACTCGGCGGGCGGAGCGGCTCAACTACCTTCACCGAGAAGTACAGCAGCTGCCACCGCAGCTGCCTCCTCAGGAT  
CCGGTCTGTCGGGGATAGGGAAGGGAGGGGAAAGGGGAACGGAACAAAAAAGGGGAGGGGAAGGGGGAGGAA  
GGAGTCGGGGACGGCCTCAACTCAGCTCAGAGGAGTCTGCTGCTGCAGCCGCCACTCGGTACCCGCTGCCACCTC  
CATAGAGCTCCGACTCACTGCTGGCGCTAAGGCGTGTCTGAAGCCGAAGTATCACTCTTGGGGCAGCCGAACCC  
ACCAGAGTCTCCCGAATGGCTCCTTCGCGGCCAATCAGCGGCCCGGTGCGCTCTGCCACCAATCCGCGCAGG  
GCAGCGAGGAGGAGCCACAGGGCTGAGCTCGGTTGCGGCGCAGCCCCGCGCAGTGCACAAAGCCATATTGCGCA  
AGTCTCTGAGGCTGAGCCAGTGGCGTAAGGGGCGCCGAGCGCTGTCGAGATGAGGGTTGCGTGCCTAAAGCCGGA  
GAGCCCTTTTGAGTCTGCGTTGGCGTGGCTGCTGCTTCTTGCTCCAGTCCCTTTGTTCACTGAGTCCATATGCCA  
TGCTCCAGTTGTATCATCCCTTTTCCCTCGACCTCGTTTTCTCACCGGGAATATGGGAAGAAAACGCACCCCTTA  
CCTCCCCGAACCCTGTGCGTGGCGAGTGAGCATTGCTTTTCTTGCGCCCCCTTGAGCTGTGGCTGCCCTCGCG  
TGCTGGCCTCTCCCGGGGCTGAGCCCTTCGGGTGAGGCCCTGGAGCCCCGGGCGCAGCGCCGGGACACTACCC  
GGCTCCAGGTCTTCGGCTTCGGCAGCCTTAGGGAACCCAGAAAGTAGTGGGGAGGAGGCGAGAGCTGCGCCCGGA  
TGCCAAAGGGGAGCTTCATTGAGCTCCTTATTGGCCACCCCTGCAGAGTGAATGAGAAAGTGATGAAAGGAAG  
GGGTGATTTTCTTCGAACCGCACAGAAGAAGCTGCTTTCCCATAGGAATGTCCGGCTGGCGGTACCCGAGGAA  
AACACCCTGTGTGTGCTGAGCTTCCGCGGGTGTGTTGGAGGATTTGCAATTGCTAGCTCCTGTTTTTTTTGTTTTT  
GTTTGTTTAAGTGCACGTTAAACATTGTCAGTTGTGTATTTTCATTTTATTTAAGGTTACCCATAAGAAATAGGA  
TTAAGCTTTTCAAAGCCGGCAAGTTGAACTATTTATACTTACCAGGTAATGTATTGATGAGTACCTTATTCCATC  
GTTTGCACATTGTAGCTATACTAAATGGAGTCATACTCCATAAAGTAAACAACAAAAATGTCCCATCTCC  
ATTTTAACATGTAGTACTTTTACAGTGTATAGTCAAAGGCAAGAATGTGTGTGTTTTAACATGAATGACTTTTAA  
AGTGTTTCAGTAAAGAGGCAGGATTTTCAAAGACCCAAAGTAACTTTGATGTGTCAAACAGCTCTTGGTATTAG  
AGCACCTGGTCTTAATACAATTTTCCGGAATTTGC

3437/6881  
**FIGURE 3166**

MRVACVKPESPFE~~S~~ALAWLLLLAPVPLFTESICHAPVVSSFPSTSF~~S~~HREYGKKTHPYLPRTL~~C~~VASEHCFSWR  
PLELWLPSRAWPLPGLSPSG

3438/6881  
**FIGURE 3167**

CGCGAGCCGGGACCACGCCGACCCAGCGTGCCAGGCCGAGGAAAGCGCGGGCGGGCAGTCCGAAGACCCACCG  
GGACTGAAAGAGAAGGACGAGGTCACTTCGGACGGGAGGGGCAAGCCAGCCATCCTGGGACCCAGGCGTGACG  
GTTCTCTTTGAGGGTATTCCACCCTGCAAAAAGCATGTATTTCATGGTCAGCTCTCAGCAAGGCCAGTAGCAGAGT  
GGTAAAGGCCTTGGCCCTCCAAGGCTGGGAAAAGACAATGACAAGTCAAATCCAGACCTATGTTGTATGTTGGTC  
TACTAGGTGACTGTCTCCTGGAAATGTTATGCAGCTCAGCAAGGTGAAGTTTCGAAATCAGTATGACAATGATGT  
CACTGTTTGGAGCCCCAGGGCAGGATTCATCAAATTGAATATGCAATGGAAGCTGTTAAACAAGGTTAGCCAC  
AGTTGGTCTGAAATCAAAAACATCATGCAGTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTCAGCTCATCA  
GAAAAAATTCTCCATGTTGACAACCATATTGGTATCTCAATTGCGGGGCTTACTGCTGATGCTAGACTGTTATG  
TAATTTTATGCGTCAGGAGTGTTTGGATTCCAGATTTGTATTTCGATAGACCACTGCCTGTGTCTCGTCTTGTATC  
TCTAATTGGAAGCAAGACCCAGATACCAACACAACGATATGGCCGGAGACCATATGGTGTGGTCTCCTTATTGC  
TGGTTATGATGATATGGGCCCTCACATTTTCCAAACCTGTCCATCTGCTAACTATTTTGACTGCAGAGCCATGTC  
CATTGGAGCCCGTTCCCAATCAGCTCGTACTTACTTGGAGAGACATATGTCTGAATTTATGGAGTGTAATTTAAA  
TGAAGTAGTTAAACATGGTCTGCGTGCCTTAAGAGAGACGCTTCTGCAGAACAGGACCTGACTACAAAGAATGT  
TTCCATTGGAATTGTTGGTAAAGACTTGGAGTTTACAATCTATGATGATGATGATGTGTCTCCATTCTGGAAGG  
TCTTGAAGAAAGACCACAGAGAAAGGCACAGCCTGCTCAACCTGCTGATGAACCTGCAGAAAAGGCTGATGAACC  
AATGGAACATTAAGTGATAAGCCAGTCTATATATGTATTATCAAATATGTAAGAATACAGGCACCACATACTGAT  
GACAATAATCTATACTTTGAACCAAAAGTTGCAGAGTGGTGAATGCTATGTTTtaggaATCAG

3439/6881  
**FIGURE 3168**

MFRNQYDNDVTWSPQGRHQIEYAMEAVKQGSATVGLKSKTHAVLVALKRAQSELAHQKILHVDNHIGISIA  
GLTADARLLCNFMRQECLDSRFVFDRLPVSRLVSLIGSKTQIPTQRYGRRPYGVGLLIAGYDDMGPHIFQTCPS  
ANYFDCRAMSIGARSQSARTYLERHMSEFMECNLNLVKGHLRALRETLPAEQDLTKNVSIGIVGKDLEFTIYD  
DDDVSPFLEGLEERPQRKAQPAQPADEPAEKADPEMEH

3440/6881  
**FIGURE 3169**

CCTTTCGTTGCCTGATCGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTAC  
CCTATCGACGCAGCTTCCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAAACTGGCCA  
AGAAGGGCCTTACTCCTTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTGCACAAGTACGTTTTGTGA  
CAGGCAATCTCTACCATTAAATTAAGAAAGCAGTTGCTGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGA  
TGCTAAATCCATCTGATTCTGATAGAGAGCCAGATTACCGTTTG

3441/6881  
**FIGURE 3170**

CGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTACCCTATCGACGCAGCTT  
CCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAACTGGCCAAGAAGGGCCTTACTCC  
TTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTTCACACAAGTACGTTTTGTGACAGGCAATAAAATTTT  
AAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACCATTAAATTAAGAAAGCAGTTGC  
TGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCATCTGATTCTGATAGAGAGCCAGATT  
CACCGTTTGGCTCAATATTATAAGACCAAGCGAGTCCTCCCTCCCAGTTGAAAATATGAATCATCTACAGCCTCT  
GCCCTGGTCGCATAAATTTGTCTGTGTACTCAAGCAATAAAATGATTGTTTAACTAAAATAAAACAAAAACAAA  
ACAAAAAA

3442/6881

**FIGURE 3171**

CGCTCTCCTTTTCGTTGCCTGATCGCCGCCATCATGGGTCGCATGCATGCTCCCGGGAAGGGCCTGTCCCAGTCGG  
CTTTACCCCTATCGACGCAGCGTCCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAAAC  
TGGCCAAGAAGGGCCTTACTCCTTCACAGATCGGTGTAATCCTGAGAGATTACATGGTGTTCACAAGTACGTT  
TTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACC  
ATTTAATTAAGAAAGCAGTTGCTGTTTCGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCGTC  
TGATTCTAATAGAGAGCCGGATTACCGTTTGGCTCGATATTATAAGACCAAGCGAGTCCTCCCTCCCAATTGGA  
AATATGAATCATCTACAGCCTCTGCCCTGGTCGCATTAAATTGTCTGTGTACTCAAGCAATAAAATGATTGTTTA  
ACTA

3443/6881  
**FIGURE 3172**

MGRMHAPGKGLSQSALPYRRSVPTWLKLTSDDVKEQIYKLAKKGLTPSQIGVILRDSHGVAQVRFVTGNKILRIL  
KSKGLAPDLPEDLYHLLIKKAVAVRKHLERNRKDKDAKFRLLILIESRIHRLARYYKTKRVLPNWKYESSTASALV  
A



3444/6881  
**FIGURE 3173**

GGGGAGAGAAGGCCCGGAGGGGCTCTGCGTTCTGTAGTGGCGCTGCTTGGGCCCGTGGCGGATTGTAAGCTGCTG  
GTTTTGCGGCTGGGAAGAGCGGCGAGAGGGTTTCGGCATTTCGTCGGGATCCCCGCAAGGATGAGTGCTGCCAG  
AGAGTCTCACCCGCATGGGGTGAAGCGTTCAGCCTCCCCAGACGACGATCTGGGATCTAGCAATTGGGAGGCAGC  
AGACTTGGGTAAATGAAGAGAGAAAACAAAAGTTCTTGAGACTTATGGGTGCAGGAAAGAAACATACTGGTGC  
TCTTGTTATAGGAGATCACAAATCAACATCTCACTTCCGAACCGGGGAAGAAGACAAGAAAATTAATGAAGAACT  
GGAGTCTCAATATCAGCAAAGTATGGACAGTAAATTATCAGGAAGATATCGGCGACATTGTGGACTTGGCTTCAG  
TGAGGTAGAAGACCATGATGGAGAAGGTGATGTGGCTGGAGATGATGATGATGACGATGATGATTCACCTGATCC  
TGAAAGTCCAGATGATTCTGAAAGCGATTTCAGAGTCAGAGAAAGAAGAATCTGCTGAAGAACTCCAAGCTGCTGA  
GCACCCCTGATGAAGTGGAGGATCCCCAAAACAAAAAGATGCAAAAAGCAATTATAAAATGATGTTTGTAAATC  
CAGTGGTTTCA~~TAA~~CTCCCAAACGCTTAGTCTTTGTATTAAAAGTAAGCCTTATTGTTACAATGCACAGTGGAGGA  
CTGCTTATAGAGCACAGACCTTTGTATTATAATTTTTAAAAAGGCCCTTTAAATAATTACAAAGAGTGTGTGCT  
TTCAAATGCCATGGGTACACTTTTATGGGCATGACTATAACCATTTTGTAAAGAGTAAGAGTTGTATAAAATA  
AGAAATAAATACAGTACTCAACTTCCTTTTCATATTAGCATCATCAACCCTCTAATTCACCTTATGGGGGAAATGC  
TTCTTTTGTGTGTAGTATTTTATCATTTTCCTTCATATTTTCTCTTATAAAAATGTATTTGATACTGTGA  
TATGTTACGAAAAGTATTCTTTAATTATTCTTTGTTATAGTAGAGCTGTTTATTATGGATATTTCTGCTGCCAG  
TCACAATCTAAATTAATTTTGGCAAAAGATTGGGTACTTAGTTGCCTGTACTGAGTTAGCTCTACTCTTTTGG  
CCAAAGCAACATGAGAGCAAGTACTTTTCACACTTGTTAAGATGGAGTTATAACTGTCATACATTGGAATATTA  
TGATCCCAAGTAGTCTTTTATAATTTGGATTGTATCGTATGTTAGATTTTGTATAAAATTTGGCCAATTTTAC  
AGAAGAAATTCTCTGATCATTTAGTTCTATCTATTTAGAAATATGTAAACTGGATTTTTTTTTTAAGTAATATGT  
GACCAAAGTTAATTTTGTCCCAAAGGTCTAAATAAAGAGCAGTTTCCACAAAAAAAAAAAAAAAAAAAAAA  
AAAA

3445/6881  
**FIGURE 3174**

MSAARESHPHGVKRSASPDDDLGSSNWEADLGNEERKQKFLRLMGAGKKEHTGRLVIGDHKSTSHFRTGEEDKK  
INEELESQYQQSMDSKLSGRYRRHCGLGFSEVEDHDGEGDVAGDDDDDDDDSPDPESPDDSESDSESEKEESAEE  
LQAAEHPDEVEDPKNKKDAKSNYKMMFVKSSGS

3446/6881  
**FIGURE 3175**

TGCTGCAGCCGCTGCCGCCGATTCCGGATCTCATTGCCACGCGCCCCGACGACCGCCCGACGTGCATTCCCGAT  
TCCTTTTGGTTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTATAATCTTCTAAAGGAAGAACAGAC  
CCCCAGAATAAGATTACAGTTGTTGGGGTTGGTGCTGTTGGCATGGCCTGTGCCATCAGTATCTTAATGAAGGA  
CTTGGCAGATGAAC TTGCTCTTGTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGGATCTCCAACATGG  
CAGCCTTTTCTTAGAACACCAAAGATTGTCTCTGGCAAAGACTATAATGTAAGTGCAACTCCAAGCTGGTCAT  
TATCACGGCTGGGGCACGTGAGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAGCGTAACGTGAACATATTTAA  
ATTCAATCATTCTAATGTTGTAAAATACAGCCGAACTGCAAGTTGCTTATTGTTTCAAATCCAGTGGATATCTT  
GACCTACGTGGCTTGGGAAGATAAGTGGTTTTCCCAAAAACCGTGTTATTGGAAGTGGTTGCAATCTGGATTGAGC  
CCGATTCCGTTACCTGATGGGGGAAAGGCTGGGAGTTCACCCATTAAGCTGTCATGGGTGGGTCTTGGGGAACA  
TGGAGATTCCAGTGTGCCTGTATGGAGTGGAAATGAATGTTGCTGGTGTCTCTCTGAAGACTCTGCACCCAGATTT  
AGGGACTGATAAAGATAAGGAACAGTGGAAAGAGGTTTACAAGCAGGTGGTTGAGAGTGCCTTATGAGGTGATCAA  
ACTCAAAGGCTACACATCCTGGGCTATTGGACTCTCTGTAGCAGATTGGCAGAGAGTATAATGAAGAATCTTAG  
GCGGGTGACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGG  
CATTTTGGGACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAA  
GAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATATCATTTTCACTGT  
CTAGGCTACAACAGGATTCTAGGTGGAGGTTGTGCAITGTTGTCCTTTTTATCTGATCTGTGATTAAAGCAGTAAT  
ATTTTAAGATGGACTGGGAAAACATCAACTCCTGAAGTTAGAAATAAGAATGGTTTGTAATAATCCACAGCTATA  
TCCTGATGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGC  
ACCACTGCCAATGCTGTACGTACTGCATTTGCCCCTTGAGCCAGGTGGATGTTTACCGTGTGTTATATAACTTCC  
TGGCTCCTTCACTGAACATGCCTAGTCCAACATTTTTTCCAGTGAGTCACATCCTGGGATCCAGTGTATAAATC  
CAATATCATGTCTTGTGCATAATTCTTCCAAAGGATCTTATTTTGTGAACTATATCAGTAGTGTACATTACCATA  
TAATGTAAAAAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTATACCAACTAAAACCCCAATAAAC  
CTTGAACAGTG

3447/6881  
**FIGURE 3176**

MATLKDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLKGEMMDLQHGSIFLRTP  
KIVSGKDYNVTANSKLVIIITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPNCKLLIVSNPVDILTYVAWKI  
SGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVSLKTLHPDLGTDKDKE  
QWKEVHKQVVESAYEVIKLGYSWAIGLSVADLAESIMKNLRRVHPVSTMIKGLYGIKDDVFLSVPCILGQNGI  
SDLVKVTLTSEEEARLKKSADTLWGIQKELQF

3448/6881  
**FIGURE 3177**

ATGCCCAGTGCCATTAGCACCAAGTGTTCCTGTCCATCCTGTGGCCTACCATCTGGTATTACTGCAGCCATGCA  
GGATCCCTGTCAATGATCATGTGTGCTCTTCTCTGGGCCCTATCCCTGCTGCTGAAATTCCTGGAGGGCAATCTT  
GGAAACAATGGCAACAAGACCGAATTGGAACGGGCTTTTGGCTACTATGGACCACTCCAAAGTGTGTGGGTTGCT  
AGAAACCCATCTGGCTTTGCTTTTGTGAAATTTGAAGATCCCCGAGATGCGGCTGATGCAGTTCCATCCCCGAGA  
GCTAAATGGAAGAACACTATGTGGCTGCTGTATGATTATCGTAGGAGTAGTCCTCCACCTCGTCGCAGATCTCCA  
AGAAGGAGAAGCTTCTCTCACAGCTGGAGCAGGTCCCTTTCTAGAGATGGGAGAAGAGAGAGGTCGCTGTCTCGG  
GAGAGAAATCACAAGCCGTCCCGATCCTTCTCTAGGTCTCGTAGCCGATCTAGGTCAAATGAAAGGAAATAG

3449/6881  
**FIGURE 3178**

ACCACAAATCAGGCCGGACAGGAGAGGGAGGGGTGGGGGACAGTGGGTGGGCATTGAGACTGCCAGCACTTTGCT  
ATCTACAGCCGGGGCTCCCGAGCGGCAGAAAGTTCCGGCCACTCTCTGCCGCTTGGGTTGGGCGAAGCCAGGACC  
GTGCCGCGCCACCGCCAGGATATCGAGCTACTGTGCCACCGCTCCGCGACGTAGACCTGACGGCCCCCGACGGC  
TCTCTGTGCTCCTTTGCCACAACGGACGACTTCTATGACGACCCGTGTTTCGACTCCCCGGACCTGCGCTTCTTC  
GAAGACCTGGACCCGCGCCTGATGCACGTGGGCGCGCTCCTGAAACCCGAAGAGCACTCGCACTTCCCCGCGGCG  
GTGACCCCGCCCCGGGCGCACGTGAGGACGAGCATGTGCGCGCGCCAGCGGGCACCACCAGGCGGGCGCTGC  
CTACTGTGGGCTGCAAGGCGTGCAAGCGCAAGACCACCAACGCCGACCGCCGCAAGGCCGCCACCATGCGCGAG  
CGGCGCGCCTGAGCAAAGTAAATGAGGCCTTTGAGACACTCAAGCGCTGCACGTGAGCAATCCAAACCAGCGG  
TTGCCAAGGTGGAGATCCTGCGCAACGCCATCCGCTATATCGAGGGCCTGCAGGCTCTGCTGCGCGACCAGGAC  
GCCGCGCCCCCTGGCGCCGACGCCCTTCTATGCGCCGGGCCCCGCTGCCCCGGGCGCGGCGGCGAGCACTAC  
AGCGGCGACTCCGACGCGTCCAGCCCGCGCTCCAAGTGTCCGACGGCATGATGGACTACAGCGGCCCCCCGAGC  
GGCGCCCGGCGGCGGAAGTGTACGAAGGCGCCTACTACAACGAGGCGCCAGCGAAGCCAGGCCCGGGAAGAGT  
GCGGCGGTGTGAGCCTAGACTGCCTGTCCAGCATCGTGGAGCGCATCTCCACCGAGAGCCCTGCGGCGCCCCGCC  
CTCCTGTGGCGGACGTGCCTTCTGAGTCGCCTCCGCGCAGGCAAGAGGCTGCCGCCCCAGCGAGGGAGAGAGC  
AGCGGCGACCCACCCAGTCACCGGACGCCGCCCGCAGTGCCCTGCGGGTGCGAAGCCCAACCCGATATACCAG  
GTGCTCTGAGGGGATGGTGGCCGCCACCCGCCCGAGGGATGGTGCCCTAGGGTCCCTCGCGCCCAAAGATTG  
AACTTAAATGCCCCCTCCCAACAGCGCTTTAAAGCGACCTCTCTTGAGGTAGGAGAGGCGGGAGAAGTGAAGT  
TTCCGCCCCCGCCCCACAGGGCAAGGACACAGCGCGTTTTCACGCAGCACCTTCTCGGAGACCCATTGCG  
ATGGCCGCTCCGTGTTCTCGGTGGGCCAGAGCTGAACCTTGAGGGGCTAGGTTGAGCTTTCTCGCGCCCTCCCC  
CATGGGGGTGAGACCTCGCAGACCTAAGCCCTGCCCGGGATGCACCGGTTATTTGGGGGGCGTGAGACCCAG  
TGCACTCCGGTCCCAAATGTAGCAGGTGTAACCGTAACCCACCCCAACCCGTTTCCCGGTTGAGGACCACTTTT  
TGTAATACTTTTGTAACTATTCTGTAAATAAGAGTTGCTTTGCCAGAGCAGGAGCCCTGGGGCTGTATTTAT  
CTCTGAGGCATGGTGTGTGGTGTACAGGGAATTTGTACGTTTATACCGCAGGCGGGCGAGCCGCGGGCGCTCGC  
TCAGGTGATCAAAATAAAGGCGCTAATTTATA

3450/6881  
**FIGURE 3179**

MELLSPLRDVLTAPDGSLSFATDDFYDDPCFDSFDLRFEDLDPRLMHVGALLKPEEHSHPAAVHPAPGA  
REDEHVRAPSGHHQAGRCLLWACKACKRKT TNADRRKAATMRERRRLSKVNEAFETLKRCTSSNP NQRLPKVEIL  
RNAIRYIEGLQALLRDQDAAPPAAAAFYAPGPLPPGRGGEHYSGDSDASSPRSNCS DGMMDYSGPPSGARRRNC  
YEGAYYNEAPSEPRPGKSAAVSSLDCLSSIVERISTESPAAPALLLADVPSESPPRRQEAAAPSEGESSGDPTQS  
PDAAPQCPAGANPNPIYQVL

3451/6881  
FIGURE 3180

AGTTGCTTCAGCATCCTGGTGTGCTGTGCGCGTGGGTCCTGTGCGGTCACTTAGCCAAGATGCTGAGGAAACCC  
AGACCCAAGACCAACCGATGGAGGAGGAGGAGTTGAGACATTCGCCCTTTCAGGCAGAAATTGCCAGTTGATGT  
CATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCAT  
TGGACAAAATCTGGTATGAAAGCTTGACAGATCCAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTTA  
TACCAAACAAACAAGATCAAACCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAATA  
ACCTTGGTACTATCGCCAAGTCTGGGACCAAGCGTTTCATGGAAGCTTTGCAGGCTGGTGCAGATATCTCTATGA  
TTGGCCAGTTCGGTGTAGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCACATAATG  
ATGATGAGCAGTACGCCCTGGGAGTCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACGTATGG  
GTCGTGGAACAAAGGTTATCTACACCTGAAAGAAGACCAAACTGAGTACTTGGAGGAACAAAGAATAAAGGAGA  
TTGTGAAGAAACATTCTCAGCTTATTGGATATCCATTACTCTTTTTGTGGAGAAGGAATGTGATAAAGAAGTCA  
GCCACGATGAGACTGAAGAAAAGGAAGACAAAGAAGAAAGAAAAGAGAGAGTCCAAAGACAAAC  
CTGAAATTGAAGATGTTGGTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAAGAAGAAGAAGACTAAGG  
AAAAGTACATCGACCAAGAAGAACTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACTAATG  
AGGAGTACGGAGAATTCTGCAAGAACCTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTCAGTTG  
AAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCATGACGTCCTTTTGACCTGTTTGAACAGAAAGA  
AAAAGAACAACATCAAATTGTATGTACGCAGAGATTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATC  
TGAACCTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATTTCCCGTGAGATGTTGCAACAAAGTA  
AAATTTTGAAAGTTATCAGGAAAAATTTGGTCAAAAAATGCTTAGAACTCTTTACAGAAGTGGCGGAAGATAAAG  
AGAACTGCAAGAAATTCATGAGCAGTTCTCTAAAAACATAAAGCTTGAATACAAGAAGACTCTCAAAATCGGA  
AGAACTTTTCAAGAGCTGTTAAGGTACTACACGTCGCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCA  
CCAGAAATGAAGGAAAAACAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAATCAGCCT  
TTGTGGAACGTCCTTGGGAAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATGATGAGTACTGTGTCCAAC  
AGCTGAAGGAATTTGAGGGGAAGACTTTAGTGCCAGTCACCAAAGAAGGCCTGGAACCTCCAGAGGATGAAGAAA  
AGAAAAAGAAATAGGAAGAGAAAAACAATGTTTGAGAACCTCTGCAAAACCATGAAAGACATATTGGAGAAAA  
AGTTGAAAAGGTGGTTGTGTCAAAACCGATTGGTGACGTCCTCATGCTGTATTGTCACAAGCACATATGGCTGGAC  
AGAAAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTATATGGCAGCCAAGAA  
ACACCTGGAGATAAATCCTGATGATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAATGACAA  
GTCTGTGAAGGATCTGCTCATCTTGCTTTACGAACTGCACTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCA  
GACACATGCTAACAGGACCTACAGGATGATCAAACTTGGTCTGGGTATTGATGAAGATGATCCTGCTGCTGATGA  
TACCAGTGCTGCTGTAACCTGAAGAAATGCCGCCCTCGAAGGAGATGACGACACATCATGCATGGAAGAAGTAGA  
CTAACCTCTGGCTAAGGGATGACTTAACTGTTCAATACTCTACAATTCCTCCGATAATATATATTCAAGGATGTT  
TTTCTTTATTTTGTGTTAATATTAAAAAGTCTGTACGGCATGACAACAACCTTAAAGGGGAAGATAAGATTTCT  
GTCTACTAAGTGATGCTGTGATACCTTAGGCACTAAAGCAGAGCTAGTAATGCTTTTGTAGTTTCACGTCGGTTT  
ATTTTCACAGATTGGGGTAACGTGCGTTGTAAAGATGTATGTAACATGATGTTAACTTTGTGGTCTAAAGTGTTTA  
GCTGTCAAGCCGGATTCCCTAAGTAGACCAATCTTGTTATCGAAGTGTTCCCTGAGCTATACCTTGATGTTTAGAA  
AAGTATTTGTTACATCTTGTTAGGATCTACTTTTGAACCTTTTCATCCCTATAGTTGACAATCTGCATGTACTA  
GTCCTCTAGAAATAGGTTAACTGAAGCAACTTGATGGAAGGATCTCTCCACAGGGCTTGTTTTCCAAAGAAAAG  
TATTGTTTGGAGGAGCAAAGTTATAAGCCTACCTAAGCATATCATAAAGCTGTTTTAAAAATAACTCAGACCCGGT  
CTTGTGGATGGAATGTAGTGCTCGAGTCACATCTTCTTATAGTTGTAACAAATACAGATGAGT



3452/6881  
**FIGURE 3181**

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIWYESLTDPSKLD SGKE  
LHINLIPNKQDQTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVVSFYSAYLVAEKVTV  
ITKHNDDEQYAWESSAGGSFTVRTDTGERMGRGTKVILHLKEDQTEYLEEQRIKEIVKKHSQLIGYPITLFVEKE  
CDKEVSDDETEEKEDKEEKEKEEESKDKPEIEDVGSDEEEKKDGDKKKKKTKEYIDQEELNKT KPIWTRNP  
DDITNEEYGEFYKNLTNDWEDHLAVKHFSVEGQLEFRALLFVP

3453/6881  
**FIGURE 3182**

GGTGTTCGTGTGCCGTGGGTCCTGTGCGGTCACTTAGCCAAGATGCCTGAGGAAACCCAGACCCAAGACCAACCG  
ATGGAGGAGGAGGAGGTTGAGACATTCGCCTTTCAGGCAGAAATTGCCAGTTGATGTCATTGATCATCAATACT  
TTCTACTCGAACAAAGAGATCTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCATTGGACCTGCATATTAAC  
CTTATACCAAAACAACAAGATCAAACCTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATC  
AATAACCTTGGTACTATCGCCAAGTCTGGGACCAAGCGTTCATGGAAGCTTTCAGGCTGGTGCAGATATCTCT  
ATGATTGGCCAGTTCGGTGTAGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCAAACAT  
AATGATGATGAGATACCAGTGCTGCTGTAACTGAAGAAATGCCGCCCTCGAAGGAGATGACGACACATCATGCA  
TGGAAGAAGTAGACTAACCTCTGGCTAAGGGATGACTTAACTGTTCA

3454/6881  
**FIGURE 3183**

ACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTTCAGTTGAAGGACAGTTGGAATTCAGAGCCCTTCTA  
TTTGTCCCATGACGTGCTCCTTTTGACCTGTTTGAACACAGAAAGAAAAAGAACAACATCAAATTGTATGTACGC  
AGAGATTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATCTGAACTTCATTAGAGGGGTGGTAGACTCG  
GAGGATCTCCCTCTAAACATTTCCCGTGAGATGTTGCAACAAAGTAAAATTTTGAAGTTATCAGGAAAAATTTG  
GTCAAAAAATGCTTAGAACTCTTTACAGAACTGGCGGAAGATAAAGAGAACTGCAAGAAATTCATGAGCAGTTC  
TCTAAAAACATAAAGCTTGGGAATACAAGAAGACTCTCAAAATCGGAAGAAGCTTTCAGAGCTGTTAAGGTACTAC  
ACGTCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGAAGGAAAAACAGAAACATATC  
TATTATATCACAGGTGAGACCAAGGACCAGGTAGCTGAGGGGAAGACTTTAGTGCCAGTCACCAAAGAAGGCCTG  
GAACTTCCAGAGGATGAAGAAAAGAAAAAGAAATAGGAAGAGAAAAACAATGTTTGAGAACCTCTGCAAAATCA  
TGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTATATGGCAGCCAAGAAACACCTGGAGATAAATCCTG  
ATGATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAATGACAAGTCTGTGAAGGATCTGCTCA  
TCTTGCTTTACGAACTGCACTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCAGACACATGCTAACAGGACCT  
ACAGGATGATC

3455/6881  
**FIGURE 3184**

GGAATGTGATAAAGAAGTCAGCGACGATGAGACTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAGAAGA  
GAAAGAGTCCAAAGACAAACCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAA  
GAAGAAGAAGAAGACTAAGGAAAAGTACATCGACCAAGAAGAACTCAACAAAACAAAGCCCATCTGGACCAGAAA  
TCCCGACGATATTACTAATGAGGAGTACGGAGAATTCTGCAAGAACTTGACCAATGACTGGGAAGATCACTTGGC  
AGTGAAGCATGAAAAATTTGGTCAAAAAATGCTTAGAACTCTTTACAGAACTGGCGGAAGATAAAGAGAACTGCA  
AGAAATTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGAATACAAGAAGACTCTCAAATCGGAAGAAGCTTT  
CAGAGCTGTTAAGGTACTACACGTCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGA  
AGGAAAAACAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCAGCCTTTGTGGAAC  
GTCTTGGGAAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATGATGAGTACTGTGTCCACAGCTGAAGG  
AATTTGAGGGGAAGACTTTAGTGCCAGTCACCAAAGAAGGCCTGGAACTTCCAGAGGATGAAGAAAAGAAAAGA  
AATAGGAAGAGAAAAACAATGTTTGAGAACCTCTGCAAAACCATGAAAGACATATTGGAGAAAAACAAGCACA  
TATGGCTGGACAGAAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACTCAACAATGGGTTATATG  
GCAGCCAAGAAACACCTGGAGATAAATCCTGATGATTCCATTAT

3456/6881  
**FIGURE 3185**

GGTCGGCGTGGTCTTGCGAGTGGAGTGTCCGCTGTGCCCGGGCCTGCACCATGAGCGTCCCGGCCTTCATCGACA  
TCAGTGAAGAAGATCAGGCTGCTGAGCTTCGTGCTTATCTGAAATCTAAAGGAGCTGAGATTCAGAAGAGAACT  
CGGAAGGTGGACTTCATGTTGATTTAGCTCAAATTATTGAAGCCTGTGATGTGTGTCTGAAGGAGGATGATAAAG  
ATGTTGAAAGTGTGATGAACAGTGTGGTATCCCTACTCTTGATCCTGGAACCAGACAAGCAAGAAGCTTTGATTG  
AAAGCCTATGTGAAAAGCTGGTCAAATTCGCGAAGGTGAACGCCCGTCTCTGAGACTGCAGTTGTTAAGCAACC  
TTTTCCACGGGATGGATAAGAATACTCCTGTAAGATACACAGTGTATTGCAGCCTTATTAAAGTGGCAGCATCTT  
GTGGGGCCATCCAGTACATCCCAACTGAGCTGGATCAAGTTAGAAAATGGATTTCTGACTGGAATCTCACCCTG  
AAAAAAGCACACCCCTTTTAAGACTACTTTATGAGGCCTTGTGGATTGTAAGAAGAGTGATGCTGCTTCAAAG  
TCATGGTGGAATTGCTCGGAAGTTACACAGAGGACAATGCTTCCAGGCTCGAGTTGATGCCACAGGTGTATTG  
TACGAGCATTGAAAGATCCAAATGCATTCTTTTTTGACCACCTTCTTACTTTAAAACCAAGTCAAGTTTTTGGAAG  
GCGAGCTTATTCATGATCTTTTAACCATTTTTGTGAGTGCTAAATTGGCATCATATGTCAAGTTTTATCAGAATA  
ATAAAGACTTCATTGATTCACTTGGCCTGTTACATGAACAGAATATGGCAAAAATGAGACTACTTACTTTTATGG  
GAATGGCAGTAGAAAAATAAGGAAATTTCTTTTGACACAATGCAGCAAGAACTTCAGATTGGAGCTGATGATGTTG  
AAGCATTGTATTGACGCCGTAAGAACTAAAATGGTCTACTGCAAAATTGATCAGACCCAGAGAAAAGTAGTTG  
TCAGTCATAGCACACATCGGACATTTGAAAAACAGCAGTGGCAACAACCTGTATGACACACTTAATGCCTGGAAAC  
AAAATCTGAACAAAGTAAAAACAGCCTTTTGAGTCTTTCTGATACCTGAGTTTTTATGCTTATAATTTTTGTTC  
TTTGAAAAAAAGCCCTAAATCATAGTAAACATTATAAACTAAAAA

3457/6881  
**FIGURE 3186**

MSVPAFIDISEEDQAAELRAYLKSKGAEISEENSEGGLHVDLAQIIEACDVCLKEDDKDVESVMNSVVSLLLLILE  
PDKQEALIESLCEKLVKFREGERPSRLQLLSNLFHGMDKNTPVRYTVYCSLIKVAASCGAIQYIPTELDQVRKW  
ISDWNLTTEKKHTLLRLLYEALVDCKKSDAASKVMVELLGSYTEDNASQARVDAHRCIVRALKDPNAFLFDHLLT  
LKPVKFLEGELIHDLLTIFVSAKLASYVKFYQNNKDFIDSLGLLHEQNMAKMRLLTFMGMAVENKEISFDTMQQE  
LQIGADDVEAFVIDAVRTKMVYCKIDQTQRKVVSHTHRTFGKQWQQLYDTLNAWKQNLNKVKNSSLSDT

3458/6881  
**FIGURE 3187**

AAAACTGCAGCCAACCTCCGAGGCAGCCTCATTGCCAGCGGACCCAGCCTCTGCCAGGTTCCGGTCCGCCATC  
CTCGTCCCGTCTCCGCGGGCCCTGCCCCGCGCCAGGGATCCTCCAGCTCCTTTGCGCCGCGCCCTCCGTTCG  
CTCCGGACACCATGGACAAGTTTGGTGGCACGCAGCCTGGGGACTCTGCCTCGTGCCGCTGAGCCTGGCGCAGA  
TCGATTTGAATATAACCTGCCGCTTTGCAGGTGTATTCCACGTGGAGAAAAATGGTCGCTACAGCATCTCTCGGA  
CGGAGGCCGCTGACCTCTGCAAGGCTTTCAATAGCACCTTGCCCAATGGCCAGATGGAGAAAGCTCTGAGCA  
TCGGATTTGAGACCTGCAGGTATGGGTTATAGAAGGGCACGTGGTGATTCCCCGGATCCACCCCACTCCATCT  
GTGCAGCAAAACAACACAGGGGTGTACATCCTCACATCCAACACCTCCAGTATGACACATATTGCTTCAATGCTT  
CAGCTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCCAATGCCTTTGATGGACCAATTACCATACTA  
TTGTTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAATACAGAACGAATCCTGAAGACATCTACCCAGCA  
ACCCTACTGATGATGACGTGAGCAGCGGCTCCTCCAGTGAAAGGAGCAGCACTTCAGGAGGTTACATCTTTTACA  
CCTTTTCTACTGTACACCCCATCCAGACGAAGACAGTCCCTGGATCACCGACAGCACAGACAGAATCCCTGCTA  
CCACTTTGATGAGCACTAGTGCTACAGCAACTGAGACAGCAACCAAGAGGCAAGAAACCTGGGATTGGTTTTCAT  
GGTTGTTTTTACCATCAGAGTCAAAGAATCATCTTCACACAACAACAAATGGCTGGTACGTCTTCAAATACCA  
TCTCAGCAGGCTGGGAGCCAAATGAAGAAAATGAAGATGAAGAGACAGACACCTCAGTTTTTCTGGATCAGGCA  
TTGATGATGATGAAGATTTTATCTCCAGCACCATTTCAACCACACCACGGGCTTTTGACCACACAAAACAGAACC  
AGGACTGGACCCAGTGGAACCCAAGCCATTCAAATCCGGAAGTGCTACTTCAGACAACCACAAGGATGACTGATG  
TAGACAGAAATGGCACCCTGCTTATGAAGGAACTGGAACCCAGAACACACCCTCCCTCATTACCATGAGC  
ATCATGAGGAAGAAGAGACCCACATTCTACAAGCACAATCCAGGCAACTCCTAGTAGTACAACGGAAGAAACAG  
CTACCCAGAAGGAACAGTGGTTTGGCAACAGATGGCATGAGGGATATCGCCAAACACCCAAAGAAGACTCCCAT  
CGACAACAGGGACAGCTGCAGCCTCAGCTCATACCAGCCATCCAATGCAAGGAAGGACAACACCAAGCCAGAGG  
ACAGTTCTTGACTGATTTCTTCAACCCAATCTCACACCCATGGGACGAGGTCAAGCAGGAAGAAGGATGG  
ATATGGACTCCAGTCATAGTATAACGCTTCAGCCTACTGCAAATCCAAACACAGGTTTGGTGAAGATTGGACA  
GGACAGGACCTCTTTCAATGACAACGCAGCAGAGTAATTCTCAGAGCTTCTCTACATCATGAAGGCTTGAAG  
AAGATAAAGACCATCCAACAACCTTCTACTCTGACATCAAGCAATAGGAATGATGTCACAGGTGGAAGAAGAGACC  
CAAATCATTCTGAAGGCTCAACTACTTTTACTGGAAGGTTATACCTCTCATTACCCACACAGGAAGGAAAGCAGGA  
CCTTCATCCCACTGACCTCAGCTAAGACTGGGTCTTTGGAGTTACTGCAGTTACTGTTGGAGATTCCAACCTCTA  
ATGTCAATCGTTCCTTATCAGGAGACCAAGACACATTCACCCCACTGGGGGGTCCCATACCACTCATGGATCTG  
AATCAGATGGACACTCACATGGGAGTCAAGAAGGTGGAGCAAACACAACCTCTGGTCTATAAGGACACCCCAAA  
TTCCAGAATGGCTGATCATCTTGGCATCCCTCTTGGCTTGGCTTTGATTCTTGCAAGTTTGCAATTGCAAGTCAACA  
GTCCAAGAAGGTGTGGGCAGAAAGAAAAGCTAGTGATCAACAGTGGCAATGGAGCTGTGGAGGACAGAAAGCCAA  
GTGGACTCAACGGAGAGGCCAGCAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGAGTCGTGAGAACTCCAG  
ACCAGTTTATGACAGCTGATGAGACAAGGAACCTGCAGAATGTGGACATGAAGATTGGGGTGAACACCTACACC  
ATTATCTTGGAAAGAAACAACCGTTGGAAACATAACCATTACAGGGAGCTGGGACACTTAACAGATGCAATGTGC  
TACTGATTGTTTCATTGCGAATCTTTTTTAGCATAAAAATTTCTACTCTTTTTGTTTTTGTGTTTTGTCTTTA  
AAGTCAGGTCCAATTTGTAAAAACAGCATTGCTTTCTGAAATTAGGGCCCAATTAATAATCAGCAAGAATTTGAT  
CGTTCCAGTTCCCACTTGGAGGCCTTTTCATCCCTCGGGTGTGCTATGGATGGCTTCTAACAAAACTACACATAT  
GTATTCCTGATCGCCAACCTTTCCCCCACCAGCTAAGGACATTTCCAGGGTTAATAGGGCCTGGTCCCTGGGAG  
GAAATTTGAATGGGTCCATTTTGCCCTTCATAGCCTAATCCCTGGGCATTGCTTTCCACTGAGGTTGGGGGTTG  
GGGTGTACTAGTTACACATCTTCAACAGACCCCTCTAGAAATTTTTCAGATGCTTCTGGGAGACACCCAAAGGG  
TGAAGCTATTTATCTGTAGTAACTATTTATCTGTGTTTTTGAATATTAACCCTGGATCAGTCCTTTGATCAG  
TATAATTTTTTAAAGTTACTTTGTTCAGAGGCACAAAAGGGTTAACTGATTACATAATAAATATCTGTACTTCTT  
CGATCTTC

3459/6881  
**FIGURE 3188**

ACTTGAGGGAGTAGGGGGCCGGGTTTGGGCCCTCAGTTGCTAAGGGCTACCCGAGTGGGAAGCGGTTCAAGAGAT  
GGGGTGAAGGGTGTTTACCGGTTCTTCAAGTCCTCAGCCTTCTGGCCCGCGGAAGTTAAGCAACCAAGAGGCGG  
GCCTAAGACCGGAAGCAGGAAGGAGGGCGCAGGAAGCAGGGCGCCGACGCTGTCTGACGGTCTTCTGTGGGTC  
TGTGGTGCCGAGGGCAGGATGGAGAAGCTGCGGCTCTGGGCCCTCCGCTACCAGGAGTACGTGACTCGTCAACC  
GGCCGCCACGGCCAGCTGGAGACAGCAGTGC GGCGCTTCACTTACCTGCTGGCAGGTGATTGCGGATTTCGA  
CGAGCTGTGAGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCT  
TCGGA AAAAGTTGCTGTGCTGTCTCCAGCAGAAGCTGCTGACATGGCTGAGCGTGTGGAGTGCCTGGAGGT  
GTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGGTGAAGTGGGCCGCTGGCTTGTTCATCGCCCTCATCCAGCTGGC  
CAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCTATCGTTCCACT  
GGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGCAGTCTTACGTGGGGAA  
GCGGTCAAACCGGGTGGTGCGAACCTCCAGAACACGCCGCTCCCTGCACTCCAGGCACTGGGGAGCTCCCCAGCA  
GCGGGAGGGACGGCAGCAGCAGCATCACGAGGAGCTGAGTGCAGCCCCACCCCTGGGGCTGCAGGAGACCAT  
CGCAGAGTTTTTGTACATTGCCCGCCGCTGCTGCACTTGTCTAGCCTGGGCCTGTGGGGTCAAGAGTGTGGAA  
ACCTTGGCTCTTGGCTGGTGTGTGGACGTGACCAGCTGAGCCTCCTGAGTGACAGAAAGGGCTGACCCGGAG  
GGAGCGGCGGGAGCTGCGGCGCCGACCATCTGCTGCTCTACTACCTGCTGCGCTCTCCTTTCTACGACCGCTT  
CTCCGAGGCCAGGATCCTCTTCTGCTCCAGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCAACAGTC  
CCAGCGTGCGGCTCTCCGTGCCTACCGGCCAGGCCCCACACAGCCCTGGTCGCCACCAGCGTTCTTCCAGG  
ACACCTTGA CTGCGCTCTCCTGTGACGATGCCACTGCAGCCCGCACCTTGTCACTGCTGGGCCAAGAAGCCTTC  
ACTAGGAGTGGGATCCAGGCTCCTCTCCACAGAAAGCGGTGACTTCACCTCATGGAGCCCGGAAGCTGCTTGC  
CTCGGCAGCCATAGGAGCGAACACTGCTGCTCTCTCGCTGGCCCTGGTGAGGACAGGAAGCCTGAACCCGGGTG  
ATGGCTGAACGCTGCCCAGCGTGTCTTCTGGCTGGGGCCCTCCGCTGTGCCCTTCTCCGAGGGCCCTGTGGCTC  
TGGCAGCCCCAGGCCATGGCGTTGCCAGCTCCCTGTGACAGAGCCTGGTGAACAGTGAGCCTGGCTCCCACGCA  
AGTGGCACTTTAAGCCCTGCATCCTCGGTTGAGAGTAAAGGCTTTTCTCCCTTAAAAAAAAAAAAAAAAAAAA  
A



3460/6881

**FIGURE 3189**

MEKLRLGLRYQEYVTRHPAATAQLETAVRGFSYLLAGRFADSHELSELVYSASNLLVLLNDGIIRKELRKKLPV  
SLSQQKLLTWLSVLECEVFMEMGAAKVWGEVGRWLVIQLAKAVLRMLLLWFKAGLQTSPPIVPLDRETQA  
QPPDGDHSPGNHEQSYVGKRSNRVVRTLQNTPSLHSRHWGAPQQREGRQQQHHEELSATPTPLGLQETIAEFLYI  
ARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRRTILLLYLLRSFFYDRFSEARIL  
FLLQLLADHVPGVGLVTTSQRAASPCLPARPHTQPWSPPAFLPGHP

3461/6881  
**FIGURE 3190**

ACTTGAGGGAGTAGGGGGCCGGGTTTGGGCCCTCAGTTGCTAAGGGCTACCCGAGTGGGAAGCGGTTCAAGAGAT  
GGGGTGAAGGGTGGTTACCCGGTTCTTCAAGTCCTCAGCCTTCTGGCCCGCGGAAGTTAAGCAACCAAGAGGCGG  
GCCTAAGACCGGAAGCAGGAAGGAGGGCGCAGGAAGCAGGGCGCCGAGCCTGTCGTACGGTCCCTTCTGTGGGT  
TGTCGGTGCCGAGGGCAGGATCGGAGAAGCTGCGGCTCCTGGGCCTCCGCTACCAGGAGTACGTACTCGTACCC  
GGCCGCCACGGCCAGCTGGAGACAGCAGTGCGGGGCTTCAGTTACCTGCTGGCAGGTGATTGCGCGATTGCGA  
CGAGCTGTCAGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCT  
TCGGA AAAAGTTGCCTGTGTCGCTGTCCAGCAGAAGCTGCTGACATGGCTGAGCGTGCTGGAGTGGTGGAGGT  
GTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGGTGAAGTGGGCCGCTGGCTTGTATCGCCCTCATCCAGCTGGC  
CAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCTATCGTTCCACT  
GGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGCAGTCCTACGTGGGGAA  
GCGGTCAAACCGGGTGGTGCGAACCTCCAGAACACGCCGCTCCCTGCACTCCAGGCACTGGGGAGCTCCCCAGCA  
GCGGGAGGGACGGCAGCAGCAGCATCACGAGGAGCTGAGTGCACCCCCACCCCTGGGGCTGCAGGAGACCAT  
CGCAGAGTTTTTGTACATTGCCCGCCGCTGCTGCACTTGCTCAGCCTGGGCCTGTGGGGTCAAGGTCGTGGAA  
ACCTTGGCTCTTGGCTGGTGTGTGGACGTGACCAGCCTGAGCCTCCTGAGTGACAGAAAGGGCTGACCCGGAG  
GGAGCGGCGGGAGCTGCGGCGCCGACCATCTGCTGCTCTACTACCTGCTGCGCTCTCCTTTCTACGACCGCTT  
CTCCGAGGCCAGGATCCTCTTCTGCTCCAGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCACAAGGCC  
GCTCATGGATTACTTGCCACCTGGCAGAAAATCTACTTCTACAGTTGGGGCTGACAGACCTCCCGGAAGGAGGG  
TGTGGGGAGGGGTGGGGCAGGGAGCCCTCTTCCCTAATAAACTGACTCCGGCAGCGTCAAAAAAAAAAAAAA  
AAAAAAAAAA

3462/6881

**FIGURE 3191**

MEKLRLGLRYQEYVTRHPAATAQLETAVRGFSYLLAGRFADSHSELVYSASNLLVLLNDGILRKELRKKLPV  
SLSQQKLLTWLSVLECVEVFMEMGAAKVWGEVGRWLVIQALAKAVLRMLLLWFKAGLQTSPPIVPLDRETQA  
QPPDGDHSPGNHEQSYVGKRSNRVVRTLQNTPSLHSRHWGAPQOREGRQQHHEELSATPTPLGLQETIAEFLYI  
ARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRRTILLYYLLRSPFYDRFSEARIL  
FLLQLLADHVPGVGLVTRPLMDYLPWQKIYFYSWG

3463/6881  
**FIGURE 3192**

AAGAAAAATTCAAAGTGGAGACAAGAACCATTGCTGTTGACTTTGCATCAGAAGATATTTATGATAAAATTAAAA  
CAGGCTTGGCTGGTCTTGAAATCGGCATCTTAGTGAAACAACGTGGGAATGTCGTATGAGTATCCTGAATACTTTT  
TGGATGTTCTGACTTGGACAATGTGATCAAGAAAATGATAAATATTAATATTCTTTCTGTTTGTAAGATGACAC  
AATTGGTACTGCCTGGCATGGTGGAAAGATCCAAAGGGGCTATTCTGAACATTTTCATCTGGCAGTGGCATGTCC  
CTGTCCCACTCTTGACCATCTATTCTGCAACCAAGACTTTTGTAGATTCTTCTCTCAGTGCCCTCCATGAGGAGT  
ATAGGAGCAAGGGCGTCTTTGTGCAGAGTGTCTGCCATACTTCGTAGCTACAAAACCTGGCTAAAATCCGGAAGC  
CAACTTTGGATAAGCCCTCTCCGGAGACGTTTGTGAAGTCTGCAATTAAAACAGTCGGCCTGCAATCCCGAACCA  
ATGGATACCTGATCCATGCTCTTATGGGCTCGATAATCTCAAACCTGCCTTCTTGGATTATTTGAAAATAGTCA  
TGAATATGAACAAGTCTACACGGGCTCACTATCTGAAGAAAACCAAGAAGAACTAAGCATTGATAACTGCATTGT  
AACTTGGCCAGATGTCCAGCATATGCACGTTCACTGCAAAAGCACCCCTACTGGTTTTGAAAATCTGACCTTGTCA  
TTTCAATAGTTATTAACATGACTAAATATTAICTTAATTAAGAGGAAAAATAGAAGTTGCTTTTAGGGGTTTTCTGA  
CATATATTCTGGATACTATCCGAGGTAATTTTGAAGTTTAATATAAATGCTCATATCAAATGAATATAGAATAA  
TATTGTGCGGGAACACCTAATAGAAAGGAATACTATTATAGCAAATCACAGAATGATAGACTCAAGCATAAAACTT  
GGCAGTTTTATCTGCTTCAAAATGCCATTGATCATTATTCTCTGATTTTCTCTGAAACTGATTATAAAAAACCAAT  
GTCCAGCTACTCTTTTGTGTTTTGACACTTGAAGAAATGGAGATCGATTGATTTGTTTATAAGCAGACACACTGC  
AATTTACAAAGATCTCTTTACGGTTTTATAAAATTATCTTCCAGTTTGTACATTTATATGGAATTGTTCTTTATC  
AAGGGTAGCTAATGACATGAAAATAATTGTGAAATATGGAATTATTTCTGACACATGAAGCCCACTAAACTATGC  
TTTCTTATAATGCATATTTCTTCTCAGTTTAAATGTATGTAATATCGAAGCTATATGGTATGATTTATAAAGAT  
AAATGGGCCAAAGTGTACATTGAGACTGGCAGCCATCTATGGTACCACTGAAACCCTGACCCAGAAAAGTGGCTT  
GCTTGGACACCCAGCTGCCTTTGTTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCTTATA  
AAAGTAATGACTTCATAGAAATGGCATTATAATTTTTTAAGTTGATACTCTACAGGTAGCTATTGATATAATTAGT  
TTTAATAAAACATGCTGCAACCATGGTATACAACAAAAATACATTTCTTTGGTGATTGAAATTAAGGCCGTATTT  
ACAATGACTTAATATAAGACTGACTTTTATCTGCTTCATAACTTGTATGGAGAACTCACCAAGAAAGAATTCAA  
TACTGTGAAATATGCAGCAAGAAGATTGGTCTTTACCTAGGCTGTGTTTCCTAAGCTCTGAGTTTTCAGCACCAG  
TAGATTTGTATTAAGAAAAAATGGGGCCTTAGCTTCTGGCTTTTAATTTTGCCAGCTAAGGACATAAAAC  
AAAAATAAACAAACAAAAACAAATAGCCATCTGCTATCAGCATCATTATGTAAAAGAAAATATATTTTAGCCCCCT  
AAAATTAGGAAGAATGTAATCTCAGAATAAAGGTTGTCATTAAAGTTGAATAAATATATAGCTTTATGAAAACA  
C

3464/6881  
**FIGURE 3193**

CCCCGCCCGTTTGCCAGCGCTCAGGCAGGAGCTCTGGACTGGGCGCGCCGCCCGCTGGAGTGAGGGAAGCCCAG  
TGGAAGGGGGTCCCGGGAGCCGGCTGCGATGGACGCCGTCTTGGAACCCCTTCCCGCCGACAGGCTGTTCCCGG  
ATCCAGCTTCTTGACTTGCGGGATCTGAACGAGTCGGACTTCTCAACAATGCGCACTTTCTTGAGCACCTGGA  
CCACTTTACGGAGAACATGGAGGACTTCTCCAATGACCTGTTTTCAGCAGCTTCTTTGATGACCCTGTGCTGGATGA  
GAAGAGCCCTCTATTGGACATGGAAGTGGACTCCCTACGCCAGGCATCCAGGCGGAGCACAGCTACTCCCTGAG  
CGGCGACTCAGCGCCCCAGAGCCCCCTTGTGCCATCAAGATGGAGGACACCACCAAGATGCAGAGCATGGAGC  
ATGGGCGCTGGGACACAACTGTGCTCCATCATGGTGAAGCAGGAGCAGAGCCCGAGCTGCCCGTGGACCCTCT  
GGCTGCCCCCTCGGGCCATGGCTGCCGCGGCCCGCATGGCCACCAGCCCCGCTGCTGGGCCTCAGCCCCCTGTCC  
AGGCTGCCCATCCCCACCAGGCCCGGGAGAGTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT  
AACCAGTTCTCAAAAGTGACACCGGAGGACCTGGTGCAGATGCCCTCCGACGCCCCCAGCAGCCATGGCAGTGAC  
AGCGACGGCTCCAGAGTCCCGCTCTCTGCCCCCTCCAGCCCTGTCAGGCCCATGGCGCGCTCCTCCACGGCC  
ATCTCCACCTCCCCACTCCTCACTGCCCTCACAAATTACAGGGGACATCAGGGCCACTGCTCCTGACAGAGGAG  
GAGAAGCGGACCCTGATTGCTGAGGGCTACCCCATCCCCACAAAACCTCCCCCTACCAAAGCCGAGGAGAAGGCC  
TTGAAGAGAGTCCCGGAGGAAAATCAAGAACAAGATCTCAGCCCAGGAGAGCCGTCGTAAGAAGAAGGAGTATGTG  
GAGTGTCTAGAAAAGAAGGTGGAGACATTTACATCTGAGAACAATGAACTGTGGAAGAAGGTGGAGACCCTGGAG  
AATGCCAACAGGACCCTGCTCCAGCAGCTGCAGAACTCCAGACTCTGGTCACCAACAAGATCTCCAGACCTTAC  
AAGATGGCCGCCACCCAGACTGGGACCTGCCTCATGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
XXX  
XXXXXXXXXXXXTGCCTCCCGAAGCCTCCTATTCTACGATGACGGGGCAGGCTTATGGGAAGATGGCCGCAGC  
ACCCTGCTGCCCATGGAGCCCCAGATGGCTGGGAAATCAACCCCGGGGGCGCGGCAGAGCAGCGGCCCGGGAC  
CACCTGCAGCATGATCACCTGGACAGCACCCACGAGACCACCAAGTACCTGAGTGAGGCCTGGCCTAAAGACGGT  
GGAAACGGCACCAGCCCCGACTTCTCCCACTCCAAGGAGTGGTTCCACGACAGGGATCTGGGCCCCAACACCACC  
ATCAAACTCTCCTAGGCCATGCCAAGACCCAGGACATAGGACGGACCCCTGGTACCCAGAAGAGGAGTTCTTGCT  
CACTAACCCGGATCCGCTCGTGCCCTGCCTCCTGGAGCTTCCCATTCAGGAGAAAAGGCTCCACTTCCCAGC  
CCTTCTTGCCCTGACATTTGGACTCTTCCCTTGGGCGGACCACTCTGTTCTATTCTCCTTCCCACCAACATC  
CATCCGTCTTCTCAGACAAACCACTCACTGGGTACCCACCTCCTCTCTCATATGCCCAACACGACCACTGCCT  
CCCTGCCCCACACCTGCACCCAAACAGACACATCAACGCACCCCACTCACAGACACCCCTTACCCACCCCCAC  
TGTACAGAGACCAAGAACAGAAATTGTTTGTAAATAATGAACCTTATTTTTATTATTGCCAATCCCTAAGATA  
TTGTATTTTACAAATCTCCCTCTTCCCTTCGCCCTCCCTTGTTTTATATTTTATGAAGTTAGTGCGGGCTTTGC  
TGCTCCCTGGCCCAGGAAAGAGGGACTCCCTGACCTCACCTGGCACCCCCCTGCTGCTGCCAAGCCGCTGGGC  
CTTTTAAATTGCCAACTGCTCTCTTCATCAGCTCAGCACATGCTTTAAGAAAGCAAACTAAAAAAAAAAAAA  
AAAGAGGCAGCATC

3465/6881  
**FIGURE 3194**

TTTTCAATTTAAATATTCTTCTTTTGCTTCTCTTAAGCAGAAGCTGGTCTCTGCTTTTCACCACCTGGAATCCAG  
TCCCAACAGCTGCTCTTCTAACCCTTCCGGCCTAATTGTGGAATAATCGTTTAAATCATTAAAGAGACAGAATCTG  
ATGTTGGTAGCTCTGACAGACCTCTCTAGCTTCTTTCATAAGCCAGGGCTCTTGCCAGCTCCTGCACACAGCCT  
GCCAGTTCTCCATCTTAGCACAGTTCCACTTTTCCATAGTAGCCAGAAACATCTGGCTGAAGACAAACAGTTACA  
AAGCAGAAGCCAAGGTGATGGGATCTGTTGTCACATATGGGGCTGGCAGCTCAAGGAATGTGGTTCTCTGCTGAG  
GAGATGTGGTAATCCAGTCAGCCCTGGCTGTCTGCCAAGGSTCTCAAGGCAGCTAGCCAGCAGCTGCATGCTT  
GGTGACTGGAGCTACTACTGCCAGGCTGCCTGGTGAACCTTTTTTGATTCTCAGTAGGTACCATCTGCCACC  
AAGCACTAAGAAAGGGAGCTGAAGTACCTAGAAAGTTCCCATTTGGGAAGTGTTCTGTCAACCAAGAGACAGGA  
TCAAGGCATCTCAACAAGGTTTAGGTCAACCAAGTGTCACCCAGTCTGACTTTAAACCCCATGCTACAGAAAG  
GTTTCTGGTTTTCCAGGTCTTGGTTGCCCTTACGTCCAAAGGCACCAGATCACTCAGCAAATGTCCCTGAATTC  
AGTGATTGGTGAAGGGAAGACACCAGCTTTTTTGATAGCTGTGTGTATCACCCTTAAGGCAAGAAGTGAAT  
TTTTGTCTGAGAACAGGGAGCAAGGGTTAATGGGACAGTACAGCATCTCCCTCTTTGCACAGGTAAGTATAGGT  
GGGTGTCTCCATCTCTAATGTCAAGCTCTGACCATAAAGGAATGCTTAGTGGGTAATGGGCCTGTCTAGAGCT  
TTGCTACCCAGAATCCCTTCTGTCTGGTGTACCTCTTGAATCACTGTGGTAATGTTAGAGAGGCAAATG  
TGTGGGCCAACAGACATTCCAGGAGAACATCCTCCAGAGCATTGATTTATTTTAAGATGGCACTAAGTGACAT  
CTCTCCCCAAGAGATGATCTCTGACACAATCCCATATGAAAACCTCTCTGAAAATGAATGCTAATTGCTATTAG  
CCTTGATGCATTACTCTAAGCAGTCTTCAGACTTCTGGATCAGTGCTTCTCAAACCTGTGGTTCTTGGACAAC  
TACAGTAGAATACATGGGTCTTATTAATAACAGATCCATTTTCCAGCTTAAATCAGATAAGAATGGGAGTC  
AGAGGGACCCAGGATTAGTATTTTAAACAAGATTTCTTCATTTTAGGTGTCTGCCCTCAGCCTCCTCAGCAAG  
GCAGAGTCAGTCTCAGGTCTACTTGCCATTGTGGTTTTGTGCATGGTGCTTTGATTCTTTGCTAATTATGTTGCA  
GGCACAGTGGTGTGTTGTCTTCTGTTTCTACCAAACCTCAGCTTTTTTGCTGTCTGCGCCTCACCTCCCATCTTT  
TCTAGGCTGTGTGCTGCTTTCCAGGTTCTCCCTTGAATAGCTGTATGTGCTGGAGTCTTTTCTTTATGTTGAATC  
ATTTAATTTTTTGCTCTTATTTCTAGGATCTAGGGTCTTTTGATCTTTCCCTTCTCTGTTTATCGTGCTAGTCC  
TCCCAGTTTTAATGATGGGTAAGTCAGGAAAGTAAGACTGGGCACATATTTTCTCTCTCCCTTCCCACTGTCCAT  
TTGCGATTCTCCAGATTGGATATGCTACTCTCTATGACTCAGAATCTTATTTTCTGTCTGATTCCCTTCTGCTT  
GAGCCAGAGAGGGCTTTTTGTAAATTTTTGTTTTGTTTTTAGGTTAAGCTTTTAGAGACTGCTGAGCTGAAGTTT  
TGCTGAATTCTCAAACACTAAACCTGCTGTGTTCCCTCTCGGCTTTCATTTTCTAATTGGAACCAGGCACAGTA  
TTGTAACAGAGAACTGCAATTAATTTCTAAAATAGTGGCAACTTGCACAGTATAATAACTTTGGTTGTAACCAA  
GTGAAAGCATAATAACAAAAATACAAAATTACTGATGAAACCAGAAAGAGTCATATACCACATTCTTCCTTTAGT  
TTGTATCTCAGTAAGTGCTGTGTTACTTAGGAATAGGGGCAGAAGCCTGCAACTGGGCAGGGAGGTTTCAGGGACA  
TGAGGACGAAGCTAGGGCATTTTGAGCTAGAAAGCAAGAATAAGGATTAGTGCTTTCAACACTGGAATTAACATG  
GACCACCCCCCACCCTCCCAATAAGTGGGGATTGTAGGCACATAAGTGGTTTAGTAAGAAGTGAAAAGGTTTTT  
CTGTGGAGTTCGAGTTCCATCGGCTCCCATCCGGGCTATCCTGCCACCTTAGCGGCTGCTCCTCCCAGGATGCG  
GGCAGGGGGCCTCTCTCCCACTCCCCACACACCGATTTCTGAGTAGCGATAGGGGCTGGAGGCTATTTTATGGG  
GTAGGGGGCCGCTGGTAGGCGAAGATTGTCCGAGGGAGAGGGGGAGGATGAAGCCAGTGCGTGGCGGAGACCTGC  
CAGATGTTGATGCCTAAGAAGAACCAGGATTGCCATTTATGAACTCCTTTTTAAGGAGGGAGTCATGGTGGCCAAG  
AAGGATGTCCACATGCCAAGCACCAGGCTGGCAGACAAGAATGTGCCCAACCTTCATGTCATGAAGGCCATG  
CAGTCTCTCAAGTCCCAGGCTACGTGAAGGAACAGTTTGCTGGAGACATTCTACTGGTACCTTACCAATGAG  
GGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCAGAGATTGTGCTGCCATCCTACGCCGTAGCCGTCCA  
GAGACTGGCAGGCCTCGGCTAAAGGCTGAGGGGTGAGCGACCTGCGAGACTCACAAGAGGGGAAGCTGACAGA  
GATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAA  
TTCCAGTTTAGAGGCGGATTTGGTCTGTGGACGTGGTCAGCCACCTCAGTAAAATTGGAGAGGATCTTTTGCATT  
GAATAAATCTATAGCCAAAAAACCTT

3466/6881  
**FIGURE 3195**

AGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGAACTCCTTTTTAAGGAGGGAGTCATGGTGGCCAAGA  
AGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCCAACCTTCATGTCATGAAGGCCATGC  
AGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACATTTCTACTGGTACCTTACCAATGAGG  
GTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCAGAGATTGTGCCTGCCATCCTACGCCGTAGCCGTCCAG  
AGACTGGCAGGCCTCGGCCCTAAAGGTCTGGAGGGTGAGCGACCTGCGAGACTCACAAGAGGGGAAGCTGACAGAG  
ATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAAT  
TCCAGTTTAGAGGCGGATTTGGTCGTGGACGTGGTCAGCCACCTCAGTAAAATTGGAGAGGATTCTTTTGCATTG  
AATAAACTTATAGCCAAAAACCTTAAAAAA

3467/6881  
**FIGURE 3196**

GCGAAGCAGCGCGGGCAGCGAGATGCAGCACCGAGGCTTCCTCCTCCTCACCTCCTCGCCCTGCTGGCGCTCAC  
CTCCGCGGTGCGCAAAAAGAAAGATAAGGTGAAGAAGGGCGGCCCGGGGAGCGAGTGCCTGAGTGGGCTGGGG  
GCCCTGCACCCCCAGCAGCAAGGATTGCGGCGTGGGTTTCCGCGAGGGCACCTGCGGGGCCAGACCCAGCGCAT  
CCGGTGCAGGGTGCCCTGCAACTGGAAGAAGGAGTTTGGAGCCGACTGCAAGTACAAGTTTAAAAAATGGGGTGA  
AGTGTGATGGGGGCACAGGCACCAAAGTCCGCCAAGGCACCCTGAAGAAGGCGCGCTACAATGCTCAGTGCCAGG  
AGACCATCCGGGTCCCCCAGCCCTGCACCCCCAAGACCAAAGCAAAGGCCAAGCAAAGGGAAGGGAAAGG  
ACTAGACGCCAAGCCTGGATGCCAAGGAGCCCCTGGTGTACATGGGGCCTGGCCCACGCCCTCCCTCTCCCAGG  
CCCGAGATGTGACCCACCAGTGCCTTCTGTCTGCTCGTTAGCTTTAATCAATCATGCCCTGCCTTGTCCCTCTCA  
CTCCCCAGCCCCACCCCTAAGTGCCCAAAGTGGGGAGGGACAAGGGATTCTGGGAAGCTTGAGCCTCCCCCAAAG  
CAATGTGAGTCCCAGAGCCCGCTTTTGTCTTCCCCACAATTCCATTACTAAGAAACACATCAATAAACTGACT  
TTTCCCCCAATAAAAGCTCTTCTTTTAAATAT



3468/6881  
FIGURE 3197

GCGGCGCGGAGCGGGCGTGCTGAGCCCCGGCCCGCGCCCGGCATGGGCGTCTCCCGCGGGCCCTCCGCCGGCCG  
GGGCTAGGGCCGGATGAGCGCGGGACGGTAGCCCCGAGGCCCGGAGCAGCGACTCCGAGTCGGCTTCCGCCCTC  
GTCCAGCGGCTCCGAGCGCGACGCCGGTCCCGAGCCGGACAAGGCGCCGCGGCGACTCAACAAGCGGCGCTTCCC  
GGGGCTGCGGCTCTTCGGGCACAGGAAAGCCATACCAAGTCGGGCCTCCAGCACCTGGCCCCCCTCCGCCCCAC  
CCCTGGGGCCCCGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCAGCGACATATGG  
GGAGCACATCTGGTTCCGAGACCAACGTGTCCGGGGACTTCTGCTACGTTGGGGAGCAGTACTGTGTAGCCAGGAT  
GCTGAAGTCAGTGTCTCGAAGAAAGTGCAGCGCTGCAAGATTGTGGTGCACACGCCCTGCATCGAGCAGCTGGA  
GAAGATAAATTTCCGCTGTAAGCCGTCTTCCGTGAATCAGGCTCCAGGAATGTCCGCGAGCCAACCTTTGTACG  
GCACCACTGGGTACACAGACGACGCCAGGACGGCAAGTGTCCGCACTGTGGGAAGGGATTCCAGCAGAAGTTTAC  
CTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGAAGCAGGCATACCACAGCAAGGTGTCTGTCT  
CATGCTGCAGCAGATCGAGGAGCCGTGCTCGCTGGGGGTCCACGCAGCCGTGGTTCATCCCGCCCACTGGATCCT  
CCGCGCCCCGAGGCCCCAGAATACTCTGAAAGCAAGCAAGAAGAAGAGGGCATCCTTCAAGAGGAAGTCCAG  
CAAGAAAGGGCCTGAGGAGGGCCGCTGGAGACCCTTCATCATCAGGCCCAACCCCTCCCGCTCATGAAGCCCT  
GCTGGTGTGTGTGAACCCCAAGAGTGGGGGCAACCAGGGTGCAAGATCATCCAGTCTTCTCTGTTATCTCAA  
TCCCGACAAAGTCTTCGACCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAGTGCACAACCT  
GCGGATCTTGGCGTGCGGGGGCGACGGCACGGTGGGCTGGATCCTCTCCACCCTGGACCAGCTACGCCTGAAGCC  
GCCACCCCTGTGTCATCTGCCCCCTGGGTACTGGCAACGACTTGGCCCGAACCTCAACTGGGGTGGGGGCTA  
CACAGATGAGCCTGTGTCCAAGATCCTCTCCACGTGGAGGAGGGGAACGTGGTACAGCTGGACCCTGGGACCT  
CCACGCTGAGCCCAACCCGAGGCAGGGCCTGAGGACCGAGATGAAGGCGCCACCGACCGGTTGCCCCCTGGATGT  
CTTCAACAATACTTACGCTGGGCTTTGACGCCACGTACCCCTGGAGTTCACAGAGTCTCGAGAGGCCAACC  
AGAGAAATTCACAGCCGCTTTCGGAATAAGATGTTCTACGCCGGACAGCTTTCTCTGACTTCTGATGGGCAG  
CTCCAAGGACCTGGCCAAGCACATCCGAGTGGTGTGTGATGGAATGGACTTGACTCCCAAGATCCAGGACCTGAA  
ACCCAGTGTGTGTTTCTGAACATCCCCAGGTACTGTGCGGGCACCATGCCCTGGGGCCACCTGGGGAGCA  
CCACGACTTTGAGCCCCAGCGGCATGACGACGGCTACCTCGAGGTCATTGGCTTCACCATGACGTCGTTGGCCGC  
GCTGCAGGTGGGCGGACACGGCGAGCGGCTGACGCAGTGTGCGGAGGTGGTGTCTACCAATCCAAGGCCATCCC  
GGTGCAGGTGGATGGCGAGCCCTGCAAGCTTGACGCCTCACGCATCCGCATCGCCCTGCGCAACCAGGCCACCAT  
GGTGCAGAAGGCCAAGCGGCGGAGCGCCGCCCCCTGCACAGCGACCAGCAGCCGGTGCCAGAGCAGTTGCGCAT  
CCAGGTGAGTCGCGTCAGCATGCACGACTATGAGGCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCTCTGT  
GCCGCTGGGCACTGTGGTGGTCCAGGAGACAGTGACCTAGAGCTCTGCCGTGCCACATTGAGAGACTCCAGCA  
GGAGCCCGATGGTGTGGAGCCAAGTCCCCGACATGCCAGAACTGTCCCCAAGTGGTGTCTCTGGACGCCAC  
CACTGCCAGCCGCTTCTACAGGATCGACCGAGCCAGGAGCACCTCAACTATGTGACTGAGATCGCACAGGATGA  
GATTTATATCTTGACCCTGAGCTGCTGGGGGCATCGGCCCGGCTGACCTCCCAACCCCACTTCCCTCTCCC  
CACCTCACCTGCTCACCCACGCCCCGGTCACTGCAAGGGGATGCTGCACCCCTCAAGGTGAAGAGCTGATTGA  
GGCTGCCAAGAGGAACGACTTCTGTAAGCTCCAGGAGCTGCACCGAGCTGGGGGCGACCTCATGCACCGAGACGA  
GCAGAGTCGCACGCTCCTGCACCACGCAGTCAGCACTGGCAGCAAGGATGTGGTCCGCTACCTGCTGGACCACGC  
CCCCCAGAGATCCTTGATGCGGTGGAGGAAAACGGGGAGACCTGTTGCACCAAGCAGCGGCCCTGGGCCAGCG  
CACCATCTGCCACTACATCGTGGAGGCCGGGGCTCGCTCATGAAGACAGACCAGCAGGGCGACACTCCCCGGCA  
GCGGGCTGAGAAGGCTCAGGACACCGAGCTGGCCGCTACCTGGAGAACCGGCAGCACTACCAGATGATCCAGCG  
GGAGGACCAGGAGACGGCTGTGTAGCGGGCCGCCACGGGCAGCAGGAGGGACAATGCGGCCAGGGGACGAGCGC  
CTCCTTGCCCACCTCACTGCCACATTCCAGTGGGACGGCCACGGGGGACCTAGGCCCAAGGAAAGAGCCCCA  
TGCCGCCCCCTAAGGAGCCGCCAGACCTAGGGCTGGACTCAGGAGCTGGGGGGGCTCACCTGTTCCCTGAGG  
ACCCGCGCGGACCCGGAGGCTCACAGGGAACAAGACACGGCTGGGTGGATATGCCCTTGCCGGGTTCTGGGGC  
AGGGCGCTCCCTGGCCGACGAGATGCCCTCCAGGAGTGGAGGGGCTGGAGAGGGGAGGCCTTCGGGAAGAGG  
CTCCTGGGCCCCCTGGTCTTCGGCCGGGTCCCCAGCCCCGCTCCTGCCCAACCCACCTCCTCCGGGCTTCT  
CCCGGAAACTCAGCGCCTGCTGCACTTGCTGCTGCTTGCTTGCCACCCGCTCCGCGACCCCTCCCGCTCC  
CCTGTCAATTCATCGCGGACTGTGCGGCTGGGGGTGGGGGCGGACTCTCACGGTGACATGTTTACAGCTGGG  
TGTGACTCAGTAAAGTGGATTTTTTTCTTTAAAAAAA

3469/6881  
**FIGURE 3198**

MEPRDGSPEARSSDSESASASSSSGSEPDAGPEPDKAPRRLNKRFPGLRFLGHRKAITKSGLQHLAPPPPTPGAP  
CSESERQIRSTVDWSESATYGEHIWFETNVSGDFCYVGEQYCVARMLKSVSRRKCAACKIVVHTPCIEQLEKINF  
RCKPSFRESGSRNVREPTFVRHHWVHRRRQDGKCRHCGKGFQQKFTFHSKEIVAISCSWCKQAYHSKVSCFMLQQ  
IEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKRASFKRKSSKKGP EEGRWRFPIIRPTSPMLMKPLLVFV  
NPKSGGNQGAIIQSFLWYLNPRQVFDLSQGGPKAELEMYRKVHNLRLACGGDGTGVGWLSTLDQLRLKPPPPV  
AILPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEGNVVQLDRWDLHAEPNPEAGPEDRDEGATDRLPLDVFNYY  
FSLGFDHVTLEFHEAREANPEKFNSRFRNKM FYAGTAFSDFLMGSSKDLAKHIRVVCDGMDLTPKIQDLKPQCV  
VFLNIPRYCAGTMPWGHGPEHHDFEQRHDDGYLEVIGFTMTSLAALQVGGHGERLTQCREVVLTTSKAIPVQVD  
GEPCKLAASRIALRNQATMVQKAKRRSAAPLHSDQQPVPEQLRIQVSRVSMHDEALHYDKEQLKEASVPLGT  
VVVPGDSDLELCRAHIERLQQEPDGAGAKSPTCQKLSPKWCFLDATTASRFYRIDRAQEHLNRYVTEIAQDEIYIL  
DPELLGASARPDLPPTSPPTSPCSPTPRSIQGDAAPPQGEELIEAAKRND FCKLQELHRAGGDLMRDEQSRT  
LLHHAVSTGSKDVVRYLLDHAPPEILDAVEENGETCLHQAAALGQRTICHYIVEAGASLMKTDQQGDTPRQRAEK  
AQDTELAAYLENRQHYQMIQREDQETAV

3470/6881  
**FIGURE 3199**

CATCTGAGTAACATGGCGGCGGCGGCGGTAGCCAGGCTGTGGTGGCGCGGGATCTTGGGGGCCTCGGCGCTGACC  
AGGGGGACTGGGCGACCCCTCCGTTCTGTTGCTGCCGGTGAGGCGGGAGAGCGCCGGGGCCGACACGCGCCCCACT  
GTCAGACCACGGAATGATGTGGCCCACAAGCAGCTCTCAGCTTTTGGAGAGTATGTGGCTGAAATCTTGCCCAAG  
TATGTCCAACAAGTTCAGGTGTCCTGCTTCAATGAGTTAGAGGTCTGTATCCATCCTGATGGCGTCATCCCAGTG  
CTGACTTTCCTCAGGGATCACACCAATGCACAGTTCAAATCTCTGGTTGACTTGACAGCAGTGGACGTCCCAACT  
CGGCAAAACCGTTTTGAGATTGTCTACAACCTGTTGTCTCTGCGCTTCAACTCACGGATCCGTGTGAAGACCTAC  
ACAGATGAGCTGACGCCCATTTAGTCTGCTGTCTGTGTTCAAGGCAGCCAACTGGTATGAAAGGGAGATCTGG  
GACATGTTTGGAGTCTTCTTTGCTAACCACCCTGATCTAAGAAGGATCCTGACAGATTATGGCTTCGAGGGACAT  
CCTTTCCGGAAAGACTTTCCTCTATCTGGCTATGTTGAGTTACGTTATGATGATGAAGTGAAGCGGGTGGTGGCA  
GAGCCGGTGGAGTTGGCCCAAGAGTTCCGCAAATTTGACCTGAACAGCCCCTGGGAGGCTTTCAGTCTATCGC  
CAACCCCGGAGAGTCTCAAGCTTGAAGCCGAGACAAGAAGCCTGATGCCAAGTAGCTCCAGGGAACGCATGTG  
GATCCTAGACAGCGCCTTATCTATGATTGAGTGTCCGTGTAATAAATTCCTACTTAGACTTAAAAAAAAAAAA

3471/6881  
**FIGURE 3200**

MAAAVARLWWRGILGASALTRGTGRPSVLLLPVRRESAGADTRPTVRPRNDVAHKQLSAFGEYVAEILPKYVQQ  
VQVSCFNELEVCIHPDGVIPVLTFLRDHTNAQFKSLVDLTAVDVPTRQNRFEIVYNLLSLRFNSRIRVKTYTDEL  
TPIESAVSVFKAANWYEREIWDMGVFFANHPDLRRILTDYGFEGHPFRKDFPLSGYVELRYDDEVKRVVAEPVE  
LAQEFRKFDLNSPWEAFPVYRQPPESLKLEAGDKKPDAK

3472/6881  
**FIGURE 3201**

GATTGCTGCTCCGCAGCACGGCCGGAGCTGGTCGGGTCAAGAGTCGGGATTTGTGGGGAGAGGTTTTCCACTGG  
TCAAGAGAAGGCTTTAAGAAAGACGGTATTAATCTCCCGTTGCGGCTCCCGCCTGGTCCCATCTTCTGCCCCGCTC  
CTCCAGGAAATGAATCTGCTGCCGAATATTGAGAGTCCAGTGACTCGGCAGGAGAAGATGGCGACCGTGTGGGAT  
GAGGCCGAGCAAGATGGAATTGGGGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCACACGGCTG  
CTGGACAGTGAGATCAAGATCATGAAGAGTGAAGTGTGAGAGTCACCCATGAGCTCCAAGCCATGAAGGACAAG  
ATAAAAGAGAACAGTGAGAAAATCAAAGTGAACAAGACCCTGCCGTACCTTGTCTCCAACGTCATCGAGCTCCTG  
GATGTTGATCCTAATGACCAAGAGGAGGATGGTGCCAATATTGACCTGGACTCCCAGAGGAAGGGCAAGTGTGCT  
GTGATCAAAACCTCTACACGACAGACGTACTTCCTTCTGTGATTGGGTTGGTGGATGCTGAAAAGCTAAAGCCA  
GGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCCTGGAGACGCTGCCCCACAGAGTATGACTCGCGGGTG  
AAGGCCATGGAGGTAGACGAGAGGCCCCACGGAGCAATACAGTGACATTGGGGGTTTGGACAAGCAGATCCAGGAG  
CTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGAACTTGGGGATCCAACCTCCAAAAGGG  
GTGCTGATGTATGGGCCCCCAGGGACGGGGAAGACCCTCCTGGCCCCGGGCTGTGCCGCACAGACTAAGGCCACC  
TTCCTAAAGCTGGCTGGCCCCCAGCTGGTGCAGATGTTTATTGGAGATGGTGCCAAGCTAGTCCGGGATGCCITT  
GCCCTGGCCAAGGAGAAAGCGCCCTCTATCATCTTCATTGATGAGTTGGATGCCATCGGCACCAAGCGCTTTGAC  
AGTGAGAAGGCTGGGGACCGGGAGGTGCAGAGGACAATGCTGGAGCTTCTGAACCAGCTGGATGGCTTCCAGCCC  
AACACCCAAGTTAAGGTAATTGCAGCCACAAACAGGGTGGACATCCTGGACCCCGCCCTCCTCCGCTCGGGCCGC  
CTTGACCGCAAGATAGAGTTCCCGATGCCCAATGAGGAGGCCCGGGCCAGAATCATGCAGATCCACTCCCGAAAG  
ATGAATGTCAGTCTTGACGTGAACCTACGAGGAGCTGGCCCGCTGCACAGATGACTTCAATGGGGCCAGTGCAAG  
GCTGTGTGTGTGGAGGCGGGCATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACCCACGAGGACTACATGGAA  
GGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACCTACAATACTACGCCTAGGGCACACAGGCCAGCCCCAGT  
CTCACGGCTGAAGTGCGCAATAAAAGATGGTTTAGGGTCCCTGCC

3473/6881

## FIGURE 3202

GGGGCCGCCCCGATCGCCGCCGCCGCCGCCGCACGTACGTGGCATGCCTGGATGTCCCTGCCCTGGCTGTGGCAT  
GGCGGGCCCAAGGCTCCTCTTCTCACTGCCCTTGCCCTGGAGCTCTTGAAAGGGCTGGGGGTTCCCAGCCGGC  
CCTCCGGAGCCGGGGGACTGCGACGGCCTGTGCGCTGACACAAGGAAAGCGAGTCCTGGGGGGCTCTGCTGAG  
CGGAGAGCGGGCTGGACACCTGGATCTGCTCCCTCCTGGGTTCCCTCATGGTGGGGCTCAGTGGGGTCTTCCCGTT  
GCTTGTCATTCCCTAGAGATGGGGACCATGCTGCGCTCAGAAGCTGGGGCTGGCGCTGAAGCAGCTGCTCAG  
CTTCGCCCTGGGGGACTCTTGGGCAATGTGTTTCTGCATCTGCTGCCGAAGCCTGGGCTACACGTGCAGCGC  
CAGCCCTGGTGGTGAGGGGAGAGCCTGCAGCAGCAGCAACAGCTGGGGCTGTGGGTCAATTGCTGGCATCCTGAC  
CTTCCTGGCGTTGGAGAAGATGTTCTGGACAGCAAGGAGGAGGGGACCAGCCAGGCCCCCAACAAAGACCCAC  
TGCTGCTGCCGCCGCTCAATGGAGGCCACTGTCTGGCCCAGCCGGCTGCAGAGCCCGGCTCGGTGCCGTGGT  
CCGGAGCATCAAAGTCAGCGGCTACCTCAACCTGCTGGCCAACACCATCGATAACTTCACCCACGGGGCTGGCTGT  
GGCTGCCAGCTTCTTGTGAGCAAGAAGATCGGGCTCCTGACAACCATGGCCATCCTCTGCATGAGATCCCCCA  
TGAGGTGGGGGACTTTGCCATCCTGCTCCGGGCGGGCTTTGACCGATGGAGCGCAGCCAAGCTGCAACTCTCAAC  
AGCGCTGGGGGGGCTACTGGGCGCTGGCTTCGCCATCTGTACCCAGTCCCCCAAGGGAGTAGTTGGGTGTTCTCC  
CGCTGCAGAGGAGACGGCAGCCTGGGTCTGCCCTTACCTCTGGCGGCTTTCTCTACATCGCCTTGGTGAACGT  
GCTCCCTGACCTCTTGAAGAAGAGGACCCGTGGCGCTCCCTGCAGCAGCTGCTTCTGCTCTGTGCGGGCATCGT  
GGTAATGGTGCTGTTCTCGCTCTTCTGTGGATTTAACTTTCCCTGATGCCGACGCCCCCTGCCCCCTGCAGCAATAAG  
ATGCTCGGATTCACTCTGTGACCGCATATGTGAGAGGCAGAGAGGGCGAGTGGCTGCGAGAGAGAATGAGCCTCC  
CGCCAGACAGGAGGGAGGTGCGTGTGGATGTATGTGGTGTGCACATGTGGCCAGAGGTGTGTGCGCGAGACCGAC  
ACTGTGATCCCTGTGCTGGGTCCGGGGCCAGTGTAGCGCCTGTCCCCAGCCATGCTGTGGTTACCTCTCCTTGC  
CGCCCTGTACCTTACCTCCCGGAGTAAGCAGCGAGGAAGAGCAGCACTGGTCCCAAGCAGAGGCCTTGCCCTG  
CTGGGACCCCGGGAGTGAGAGCAGCCCAAGGATCCAGGGTGCAGGGAATCCAGAGCTGCCACCTCCACTGCC  
CCCTCAGCACACACAGTCCCCAGGCGGCTAGGGGCCAAGGCTGGGGCGGCTTTGGTCCCTTTTCTGGCCCT  
TCCTTCCCCACTTCTAAGCCAAAGAAAGGAGAGGCAGGTGCTCCTGTACCCAGCCCCACTCAGCACTGACAGTC  
CCCAGCTCCTAGTAGTGAGCTGGGAGGCGCTTCTAAGACCCTTTCTCAGGGCTGCCCTGGGAGCTCATTCTTG  
GCCAACACGCCCTGGCAGCACCAGCAGCTCTTGCCACCTCCAGCTGCCAAACAGCAGCCTGCCGGGCAGGGAGCA  
GCCCCAGGCCAGAGAGGCTCCCGGTCCAGCTCAGGGATGCTCCTGCCAGCACAGGGGCCAGGGACTCCTGGAGC  
AGGCACATAGTGAGCCCGGGCAGCCCTGCCAGCTCAGGCCCTTTCTTCCCCATTGAGGTTGGGGTAGGTGGG  
GGCGGTGAGGGCTCCACGTTGTGAGCGCTCAGGAATGTGCTCCGGCAGAGTGCTGAAGCCATAATCCCCAACCAT  
TTCCCTTGGCTGACGCCAGGTACTCAGCTGGCCACTCCACAGCCAGGCTGGCCCTGCCCTTACCGTGGATG  
TTTTCAGAAGTGGCCATCGAGAGGTCTGGATGGTTTTATAGCAACTTTGCTGTGATTCCGTTTGTATCTGTAAAT  
ATTTGTTCTATAGATAAGATACAAATAAATATTATCCACAT

3474/6881  
**FIGURE 3203**

MPGCPCPGCGMAGPRLLFLTALALELLERAGGSQPALRSRGTTACRLDNKESESWGALLSGERLDTWICSLGSLGS  
LMVGLSGVFPLLVIPEMGTMLRSEAGAWRLKQLLSFALGGLGNVFLHLLPEAWAYTCSASPGGEGQSLQQQQ  
LGLWVIAGILTFLEKMF LDSKEEGTSQAPNKDPTAAAAALNGGHCLAQPAAEPGLGAVVRSIKVSGYLNLLAN  
TIDNFTHGLAVAASFLVSKKIGLLTTMAILLHEIPHEVGDFAILLRAGFDRWSAAKLQLSTALGGLLGAGFAICT  
QSPKGVVGCSPAAEETAAWVLPFTSGGFLYIALVNVLPDLLEEEDPWRS LQQLLLLCAGIVVMVLFSLFVD

3475/6881  
**FIGURE 3204**

CAGTGCCTTGGTAATGACCAGGGCTCCAGAAAGAGATGTCCTTGTGGCTGGGGGCCCCCTGTGCCTGACATTCTC  
CTGACTCTGCGGTGGAGCTGTGGAAGCCAGGCCGACAGGATGCAAGCAGCCAGGCCAGGGAGGCAGCAGCTGCA  
TCCTCAGAGAGGAAGCCAGGATGCCCCACTCTGCTGGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCCA  
CAGCCCTGCTCACCAGGGCAGAGCCCCCTTCAGAACCCACAGAGATCCGTCCACAAAAGCGGAAAAAGGGGCCAG  
CCCCAAAATGCTGGGGAACGAGCTATGCAGCGTGTGTGGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGA  
GCTGCGAGGGCTGCAAGGGATTCTTCCGCCGCAGCGTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCC  
ACTGCCCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTGGCTTCGCAAAATGCCGTGAGGCTGGCATGC  
GGGAGGAGTGTCTCTGTGTCAGAAGAACAGATCCGCTGAAGAACTGAAGCGGCAAGAGGAGGAACAGGCTCATG  
CCACATCCTTCCCCCCCAGGCGTTCCCTACCCCCCAAATCCTGCCCCAGCTCAGCCCGGAACAACCTGGGCATGA  
TCGAGAAGCTCGTCGCTGCCCAGCAACAGTGTAACCGGCGCTCCTTTTCTGACCGGCTTCGAGTCACGCCTTGGC  
CCATGGCACCAGATCCCCATAGCCGGGAGGCCCGTCAGCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCT  
CTGTGCAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCCTGCAGCTCAGCCGGGAGGACCAGATTGCCC  
TGCTGAAGACCTCTGCGATCGAGGTGATGCTTCTGGAGACATCTCGGAGGTACAACCCCTGGGAGTGAGAGTATCA  
CCTTCCTCAAGGATTTTCAAGTTATAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGGAATTCATCAACCCCA  
TCTTCGAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCGAGTTTGCCTTGCTCATTGCTATCAGCA  
TCTTCTCTGCAGACCGGCCCCAACGTGCAGGACCAGCTCCAGGTGGAGAGGCTGCAGCACACATATGTGGAAGCCC  
TGCATGCCTACGTCTCCATCCACCATCCCCATGACCGACTGATGTTCCACGGATGCTAATGAAACTGGTGAGCC  
TCCGGACCTTGAGCAGCGTCCACTCAGAGCAAGTGTTTGCCTGCGTCTGCAGGACAAAAAGCTCCCACCGCTGC  
TCTCTGAGATCTGGGATGTGCACGAATGACTGTTCTGTCCCCATATTTTCTGTTTTCTTGGCCGGATGGCTGAGG  
CCTGGTGGCTGCCTCCTAGAAGTGGAACAGACTGAGAAGGGCAAACATTCCTGGGAGCTGGGCAAGGAGATCCTC  
CCGTGGCATTAAAAGAGAGTCAAAGGGT



3476/6881  
**FIGURE 3205**

MSLWLGAPVPDIPPDSAVE LWKPGAQDASSQAQGGSSCILREEARMPHSAGGTAGVGLEAAEPTALLTRAEPPE  
PTEIRPQKRKKGPAPKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYICHSGGHCPMDTYMRRKC  
QECRLRKCRQAGMREECVLSEEQIRLKKLKRQEEQAHATSLPPRRSSPPQILPQLSPEQLGMIEKLVAAQQQCN  
RRSFSDRLRVTPWPMADPHSREARQQRFAHFTELAIVSVQEIVDFAKQLPGFLQLSREDQIALLKTS AIEVMLL  
ETSRRYNPGSESITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQLNDAEFALLIAISIFSADRPNVQDQ  
LQVERLQHTYVEALHAYVSIHHPHDRLMFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKL PPLLSEIWDVHE

3477/6881  
**FIGURE 3206**

TTGCTGCATAGATTACAACGGTGATGGCGGGCAAGCGGTCCGGCTGGAGCCGGGCGGCTCTCCTCCAGCTCCTTC  
TCGGCGTGAACCTGGTGGTGATGCCGCCACCCGGGCGCGAGTCTGCGCTTCGTTACCTTGCTGTACCGCCATG  
GAGACCGTTACCAAGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAAGAATGGCCCCAGGGGTTTGGTCAGT  
TAACCAAGGAGGGGATGCTACAGCACTGGGAAGTGGGCCAGGCCCTGCGGCAGCGCTATCACGGCTTCCTAAACA  
CCTCTTATCACCGGCAAGAGGTTTATGTGCGAAGCACAGACTTTGACCGGACTCTCATGAGTGTGAGGCCAACC  
TGGCTGGACTCTTCCCTCCCAACGGGATGCAGCGCTTCAACCCGAACATCTCGTGGCAGCCTATTCTGTGCACA  
CTGTGCCCATCACTGAGGACAGGCTGCTGAAGTTCCCGTTGGGCCCATGTCCCCGTTATGAGCAGCTGCAGAACC  
AGACCCGGCAGACACCAGAGTATCAGAATGAGAGTTCTCGGAATGCACAATTCTGGACATGGTGGCCAACGAGA  
CAGGGCTTACAGACCTGACACTGGAGACCGTCTGGAATGTCTATGACACACTCTTCTGTGAGCAAACGCACGGGC  
TGCGCTGCGGCCCTGGGCCTCACCCCAAACCATGCAGCGTCTCAGCCGGCTAAAGGACTTCAGCTTCCGCTTCC  
TCTTCGGAATCTACCAGCAGGCGGAGAAGGCCCGGCTTCAGGGGGAGTCCGTGCTGGCTCAGATAAGGAAGAACC  
TGACCTAATGGCGACCACCTCCCAGCTCCCCAAGCTGTGGTTTACTCTGCGCACGACACTACCCTGGTTGCCC  
TGCAAATGGCACTGGATGTCTACAATGGTGAACAAGCCCCCTACGCCTCTGCCACATATTTGAACTGTACCAGG  
AAGATTCTGGGAATTTCTCAGTGGAGATGTACTTTCCGAACGAGAGTGACAAGGCCCCCTGGCCGCTCAGCCTGC  
CTGGCTGCCCTCACCGCTGCCCACTGCAGGACTTCCTTCGCCTCACAGAGCCCGTCTGTGCCAAGGATTGGCAGC  
AGGAGTGCCAGCTGGCAAGCGGTCTGCAGACACAGAGGTGATTGTGGCCTTGGCTGTATGTGGCTCCATCCTCT  
TCCTCCTCATAGTGCTGCTCCTCACCGTCTCTTCCGGATGCAGGCCCAGCCTCCTGGCTACCGCCACGTGCGAG  
ATGGGGAGGACCACGCCTGACAACCACTCAGCCCCCTTCCCTCCACCTCCTAGGGGAGGTGGGCTGGGCCCTCGC  
TCCTGACTGTTGCTGCTCCCCAGCCCATGGACAGGAGATCCTGGGTTGGGCTCCCTCTGATGACCCAGCCAGA  
TGAGCGAGTGGGGCTCAGCGTGGCCCATGGTGCCTGTCACTCAGCATTCCCATGCCTGATGTTTACCAAGTGCTG  
TGTTGGACACTGGCTTTCTCCAAACAGGATTTGCCTCCTCCACGCTCCCTACACACCTGAGATGTAACTGGCAG  
TCAGTGTCACTCAGGACCTAGGATTAGAAAATGGCAGAGTTGGTGTGGATCCACCTTGCACTTCTATCAAGCC  
CTGTTCTTTTCTCCAGCCTGAAGTCTTCGGCAAATAGCTCAGAGGGACACGGTCTTGCCTCTCAGTGCTTATT  
TTAGTGGGAAAAACAGCTAATACCAGGGGTACAAACATTGGCTCCCAAGGAAGTGGATACCCAAACAGCCAGCCA  
GCCACATTTCCCTGTGTCTGGCTAGAGCCACCATTAGACTCAGACAGAATGCTTCAGGAATCGTTGTACCCCTT  
CAACTGGAGCAGGACGGAAGGTTGTCTGTACTTGGGAGGGAGTGGGGAGTGGTGGGAAGGGAGTTGCTTGTACA  
CGAATCAGGAAACTGCTCTCCCTCAGCTGGGCTGGGGTCTCCAGGGACCTGAGCTACATGCAGGTTGTGAGCTGG  
AAAAGAAAGTTCTAGACTGTGGCCCAAGATAGGGCTGGGGCAGCTCCAGAGAATGAATAGTGTGTTTCTATT  
GGACTGATA

3478/6881

**FIGURE 3207**

MAGKRSGWSRAALLQLLGVNLVVMPPTRARSLRFVTLRYHGDRSPVKTYPKDPYQEEEWPGFGQLTKEGMLQ  
HWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRTLMSAEANLAGLFPPNGMQRFNPNISWQIPVHTVPITEDR  
LLKFPLGPCPRYEQLNETRQTPEYQNESSRNAQFLDMVANETGLTDLTLETVWNVYDTLFCQTHGLRLPPWAS  
PQTMQRLSRLKDFSFRFLFGIYQQA EKARLQGGVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALDVY  
NGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASG  
PADTEVIVALAVCGSILFLLIVLLLTVLFRMQAQP PGYRHVADGEDHA

3479/6881  
**FIGURE 3208**

GAGCTCCAAGCTGGTTTGAACAAGCCCTGGGCATGTTTGGCGGGAAGTTGGCTTAGCTCGGCTACCTGTGGCCCC  
GCAGTTTTGTAGTCCCCGCCTTGTTTCTCCCCAGAGGCCTCTCAATCCTCCCTCCATGATCTTCGCATAGAGCAC  
AGTACCCCTTCACACGGAGGACGCGATGGCTCCCAAGAAACGCCAGAAACCCAGAAGACCTCCGAGATTGTATT  
ACGCCCCAGGAACAAGAGGAGCAGGAGTCCCCTGGAGCTGGAGCCCGAGGCCAAGAAGCTCTGTGCGAAGGGCTC  
CGGTCTTAGCAGAAGATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCACAGATCCTGCCACCATGCCG  
CAGCATCGTCAGGACCCTCCACCAGCATAAGCTGGGCAGAGCTTCCTGGCCATCTGTCCAGCAGGGGCTCCAGCA  
GTCCTTTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACATCCTT  
GGCGTGGCACCCAACTCACCCAGCACCCTGGCTGTGGGTTCCAAAGGGGGAGATATCATGCTCTGGAATTTTGG  
CATCAAGGACAAACCCACCTTCATCAAAGGGATTGGAGCTGGAGGGAGCATCACTGGGCTGAAGTTTAACCCCTCT  
CAATACCAACCAGTTTTACGCCTCCTCAATGGAGGGAACAACCTAGGCTGCAAGACTTTAAAGGCAACATTCTACG  
AGTTTTTGGCAGCTCAGACACCATCAACATCTGGTTTTGTAGCCTGGATGTGTCTGCTAGTAGCCGAATGGTGGT  
CACAGGAGACAACGTGGGGAACGTGATCCTGCTGAACATGGACGGCAAAGAGCTTTGGAATCTCAGAATGCACAA  
AAAGAAAGTGACGCATGTGGCCCTGAACCCATGTGTGATTGGTTCTTGGCCACAGCCTCCGTAGATCAAACAGT  
GAAAATTTGGGACCTGCGCCAGGTTAGAGGGAAAGCCAGCTTCTCTACTCGCTGCCGCACAGGCATCCTGTCAA  
CGCAGCTTGTTTCAGTCCCGATGGAGCCCGGGCTCCTGACCACGGACCAGAAGAGCGAGATCCGAGTTTACTCTGC  
TTCCCAGTGGGACTGCCCCCTGGGCCTGATCCCGCACCCCTCACCGTCACTTCCAGCACCTCACACCCATCAAGGC  
AGCCTGGCATCCTCGCTACAACCTCATTGTTGTGGGCCGATACCCAGATCCTAATTTCAAAGTTGTACCCCTTA  
TGAATTGAGGACGATCGACGTGTTTCGATGGAACTCAGGGAAGATGATGTGTGCTAGCTCTATGACCCAGAATCTTC  
TGGCATCAGTTCGCTTAATGAATTCAATCCCATGGGGGACACGCTGGCCTCTGCAATGGGTACCACATTCTCAT  
CTGGAGCCAGGAGGAAGCCAGGACACGGAAGTGAGAGACACTAAAGAAGGTGTGGGCCAGACAAGGCCTTGGAGC  
CCACACATGGGATCAAGTCTGCAAGCAGAGGTGGTGATTTGTTAAAGGGCCAAAAGTATCCAAGGTTAGGGTTG  
GAGCAGGGGTGCTGGGACCTGGGGCACTGTGGGACTGGGACACTTTTATGTTAATGCTCTGGACTTGCCCTCCAGA  
GACTGCTCCAGAGTTGGTGACACAGCTGTCCCAAGGGCCCCTCTGTATCTAGCCTGGAACCAAGGTTATCTTGA  
ACTAAATGACTTTTCTCCTCTCAGTGGGTGGTAGCAGAGGGATCAAGCAGTTATTTGATTTGTGCTCTTTTGATA  
TGGCCAATAAAACCATACCG

3480/6881  
**FIGURE 3209**

MAPKKRPETQKTSEIVLRPRNKRSPLELEPEAKKLCAGSGPSRRCDSDCLWVGLAGPQILPPCRSIVRTLHQ  
HKLGRASWPSVQQGLQQSFLHTLDSYRILQKAAPFDRRATSLAWHPTHPTVAVGSKGGDIMLWNFGIKDKPTFI  
KGIGAGGSITGLKFNPNTNQFYASSMEGTTRLQDFKGNILRVFASSDTINIWFCSLDVSASSRMVVTGDNVGNV  
ILLNMDGKELWNLRMHKKKVTHVALNPCCDWFLATASVDQTVKIWDLRQVRGKASFLYSLPHRHPVNAACFSPDG  
ARLLTTDQKSEIRVYSASQWDCPLGLIPPHRHFOHLTPIKAAWHPRYNLIVVGRYPDPNFKSCTPYELRTIDVF  
DGNSGKMMCQLYDPESGSSLNEFNPMGDTLASAMGYHILIWSQEEARTRK

**FIGURE 3210**

[illegible]

3482/6881  
**FIGURE 3211**

MAPEEDAGGEALGGSFWEAGNYRRTVQRVEDGHRLCGDLVSCFQERARIEKAYAQQADWARKWRGTVEKGPQYG  
TLEKAWHAFFTAERLSALHLEVREKLQGQDSEVRVWQAFHRPVLGGFRESRAAEDGFRKAQKPWLKRLKEV  
EASKKSYHAARKDEKTAQTRESHAKADSAVSQEQLRKLQERVERCAKEAEKTKAQYEQTALAEHRYTPRYMEDME  
QAFETCQAAERQRLFFKDMLLTLHQHLDLSSEKFHELHRDLHQGIEAASDEEDLRWWRSTHGPGMAMNWPQFE  
EWSLDTQRTISRKEKGRSPDEVTLTSIVPTRDGTAPPPQSPGSPGTGQDEWSDEESPRKAATGVRVRALYDYA  
GQEADELSFRAGEELLKMSEDEQGCQGLQSGRIGLYPANYVECVGA

3483/6881  
**FIGURE 3212**

TGGGAAGGAGAGAAAATGGCGGCGGAGCCGAACAAGACCGAAATCCAGACTCTTTTAAAGAGGCTTCGCGCAGTT  
CCAACCAACAAGGCCTGTTTCGACTGCGGCGCCAAGAATCCGAGTTGGGCCAGCATCACGTACGGTGTTTTCTTG  
TGCATTGACTGTTCCGGGGTGCACCGCTCCCTGGGCGTCCATCTGAGCTTCATCAGGTCCACAGAGTTGGATTCC  
AACTGGAACTGGTTCCAGCTGAGGTGTATGCAGGTGCGGCGGAATGCCAATGCGACGGCTTTTTTCGCCAACAT  
GGATGCACAGCCAATGATGCCAACACCAAATATAATAGCCGAGCTGCCCAGATGTACCGGGAGAAGATCCGGCAG  
CTGGGGAGTGCGGCCCTGGCTAGGCATGGCACTGATCTTTGGATAGACAACATGAGTAGTGCCGTTCTTAATCAC  
TCCCCAGAGAAGAAGGACTCTGATTTCTTCACAGAACACACTCAACCCCTGCCTGGGATGCGCCAGCCACTGAG  
CCTTCAGGGACCCAGCAGCCAGCCCCGTCTACAGAGAGCAGTGGCCTGGCACAGCCGGAGCATGGCCCCAACACA  
GACCTGCTTGGCACCTCACCCAAAGCCTCACTGGAAGTGAAGCTCCATCATTGGCAAGAAGAAGCCAGAGCTT  
CAGTGAGATTGAGCGGCAGGCTCAGGTGGCAGAGAAGCTCCGTGAGCAGCAGGCAGCCGATGCCAAGAAGCAGGC  
GGAGGAGTCCATGGTCGCTCCATGCGTCTGGCCTACCAGGAGCTCCAGATTGATCGTAAGAAAGAGG



3484/6881

**FIGURE 3213**

MAAEPNKTEIQTLFKRLRAVPTNKACFDCGAKNPSWASITYGVFLCIDCSGVHRS LGVHLSFIRSTE LDSNWNWF  
QLRCMQVGGNANATAFFRQHGCTANDANTKYNSRAAQMYREKIRQLGSAALARHGTDLWIDNMSSAVPNHSPEKK  
DSDFFTEHTQPPAWDAPATEPSGTQQFAPSTESSGLAQPEHGPNTDLLGTSPKASLELKSSIIGKKKPAAAKKGL  
GAKKGLGAQKVSSQSFSEIERQAQVAEKLREQQAADAKKQAEESMVASMLAYQELQIDRKKEEKKLQNLEGKKR  
EQAERLGMGLVSRSSVSHSVLSEMQVIEQETPVSAKSSRSQDLDFDDVGTFA SGPPKYKDNPFSLGESFGSRWDT  
DAAWGMDRVEEKEPEVTISSIRPISERATNRREVESRSSGLESSEARQKFAGAKAISSDMFFGREVDAEYEARSR  
LQQLSGSSAISSSDLFGDMDGAHGAGSVSLGNVLP TADIAQFKQGVKSVAGKMAVLANGVMNSLQDRYGSY

3485/6881  
**FIGURE 3214**

GAAAAAGGGGGTTTCGTTTACATGCTGTGAGATCACCGCAAACCTACCTCACTGTGTTGAAACGGGACAAATACA  
ATAGAACGCATTGGGTGGTGTGTCTGATCCTGGGTCTTGTCTCCCCTAAATGCTGCCCCCAAGTTACTGTA  
TTTGTCTGGGCTTTGTAGGACTTCACTAAGTTGATTGCTAGGTGGCCTAGTTTGTGTAAATATAATGTATTGGTC  
TTCCTCCGTGTTCTTTGGGGGTTTGTTTACAAAGTTCTTTTTGTATTGAGAGAAAAATAGCCAAAGCATCTTG  
ACAGAAGTTTCTGCACCAGGCAAAAAGATCTGAAACATTAGTTTGGGGGGCCCGCTTCTTAAAGTGGGGATCTTG  
AACCATCCTTTCTTTGTATTCCCCTTCCCCTATTACCTATTAGACCAGATCTTCTGTCTTAAAACTGTCTTC  
TACCCTGCCCTCTTTCTGTTCACCCCCAAAAGAAAACCTTACACACCCACACACATACACATTTAATGCTTGGAG  
TGTCTCCACAACICTTAAATGATGTATGCAAAAATCCTGAAGCTAGGAAAACCTCCATCCCCTTGTTCCTAACCT  
CCTAAGTCAAGACCATTACCATTCTTTCTTTTTTTGGTGGGGGGGGGGGGTGGATGGAGTCTCGCTCTGTGCGC  
CCAGGCGGAGGTTGCAGTGAGCTGAGATCGCACCCTGCACTCCAGCCTGGTTACAGAGCAAGACCCTGTCTCGA  
AAAAAAAAAAAAACAAAAAACAAAAAACCACACTACTGTATTTGGATGGATCAAACCTACTTACTTTT  
AATTCTAATCCTAAAGTAAAGAGATGCAATTGGGGCCCTCCATGTAGAAAGTGGGGTCAGGAGGCCAAGAAAG  
GGAATATGAATGTATATCCAAGTCACTCAGGAACCTTTATGCAGGTGGTAGAACTTATGTCAAAGTGGCCACAA  
GATTGTTTAAATAGGAGATGAATGAATGTAACCTCCATGTTTACTGCTAGAAACCAAAGCTTGTGTAAATCTTGA  
ATTTATGGGGAGGGAGGGTAGGAAAGCCTGTACCTGTCTGTTTTTTTCTGATCCTTTTCCCTCATTCCTGAACCT  
GCAGGAGACTGAGCCCCCTTGGGCTTGGTGACCCCATCACTGGGGTGTGTTTATTTGACGGTTGATTTTGCTGT  
ACTGGGTACTTCCTTTCCCATTTTCTCATCATTTTTTAACACATGCTGACTCTTCCCTTCCCTTCTCCTTTCCCT  
GGGAAAATACAATGAATAAATAAAGACTTACTGGTAC

3486/6881  
**FIGURE 3215**

GAATTCCGTACGGCTTCCGGTGGCGGGACGCGGGGCCGCGCACGCGGGAAAAGCTTCCCCGGTGTCCCCCATCC  
CCCTCCCCGCGCCCCCCCCCGCTCCCCCAGCGCGCCACCTCTCGCGCCGGGGCCCTCGCGAGGCCGAGCCTG  
AGGAGATTCCCAACCTGCTGAGCATCCGCACACCCACTCAGGAGTTGGGGCCCAGCTCCCAGTTTACTTGGTTTC  
CCTTGTCAGCCTGGGGCTCTGCCAGGCCACCACAGGCAGGGGTGACATGGCAGAGACACTGGAGTTCAACGA  
CGTCTATCAGGAGGTGAAAGTTCCATGAATGATGGTGCAGTGAAGTTGAGCCGTCAGGGCATCATCTTCAAGAA  
TAGCAAGACAGGCAAAGTGGACAACATCCAGGCTGGGGAGTTAACAGAAGGTATCTGGCGCCGTGTTGCTCTGGG  
CCATGGACTTAAACTGCTTACAAAGAATGGCCATGTCTACAAGTATGATGGCTTCCGAGAATCGGAGTTTGAGAA  
ACTCTCTGATTTCTTCAAACCTACTATCGCCTTGAGCTAATGGAGAAGGACCTTTGTGTGAAGGGCTGGAAGT  
GGGACAGTGAAATTTGGTGGGAGCTGCTTTTCTTTGACATTGGTGACCAGCCAGTCTTTGAGATACCCCTCAG  
CAATGTGTCCAGTGCACCACAGGCAAGAATGAGGTGACACTGGAATTCACCAAAACGATGACGCAGAGGTGTC  
TCTCATGGAGGTGCGCTTCTACGTCCACCCACCCAGGAGGATGGTGTGGACCCTGTTGAGGCCTTTGCCAGAA  
TGTGTTGTCAAAGCGGATGTAATCCAGGCCACGGGAGATGCCATCTGCATCTTCCGGGAGCTGCAGTGTCTGAC  
TCCTCGTGGTCTTATGACATTTCGATCTACCCACCTTTCTGCACCTGCATGGCAAGACCTTTGACTACAAGAT  
CCCCTACACCACAGTACTGCGTCTGTTTTTGTACCCACAAGGACCAGCGCCAGATGTTCTTTGTGATCAGCCT  
GGATCCCCCAATCAAGCAAGGCCAACTCGCTACCCTTCTGATCCTCTCTTCTCCAAGGACGAGGACATTT  
GTTGACTCTGAACATGAACGAGGAAGAAGTGGAGAAGCGCTTTGAGGGTCGGCTCACCAAGAACATGTCAGGATC  
CCTCTATGAGATGGTCAGCCGGGTGATGAAAGCACTGGTAAACCGCAAGATCACAGTGCCAGGCAACTTCAAGG  
GCACTCAGGGGGCCAGTGCAATTACCTGTTCTTACAAGGCAAGCTCAGGACTGCTCTACCCGCTGGAGCGGGCTT  
CATCTACGTCCACAAGCCACCTGTGCACATCCGCTTCGATGAGATCTCCTTTGTCAACTTTGCTCGTGGTACCAC  
TACTACTCGTTCTTTGACTTTGAAATTGAGACCAAGCAGGGCACTCAGTATACCTTCAGCAGCATTGAGAGGGA  
GGAGTACGGGAACTGTTTGATTTTGTCAACGCGAAAAAGCTCAACATCAAAAACCGAGGATTGAAAGAGGGCAT  
GAACCAAGCTACGATGAATATGCTGACTCTGATGAGGACCAGCATGATGCCTACTTGGAGAGGATGAAGGAGGA  
AGGCAAGATCCGGGAGGAGAATGCCAATGACAGCAGCGATGACTCAGGAGAAGAAACCGATGAGTCATTCAACCC  
AGGTGAAGAGGAGGAAGATGTGGCAGAGGAGTTTGACAGCAACGCCTCTGCCAGCTCCTCCAGTAATGAGGGTGA  
CAGTGACCGGGATGAGAAGAAGCGGAAACAGCTCAAAAAGGCCAAGATGGCCAAGGACCGCAAGAGCCGCAAGAA  
GCCTGTGGAGGTGAAGAAGGGCAAAGACCCCAATGCCCAAGAGGCCCATGTCTGCATACATGCTGTGGCTCAA  
TGCCAGCCGAGAGAAGATCAAGTCAGACCATCCTGGCATCAGCATCACGGATCTTTCCAAGAAGGCAGGCGAGAT  
CTGGAAGGGAATGTCCAAAGAGAAGAAGAGGAGTGGGATCGCAAGGCTGAGGATGCCAGGAGGGACTATGAAAA  
AGCCATGAAAGAATATGAAGGGGGCCGAGGCGAGTCTTCTAAGAGGGACAAGTCAAAGAAGAAGAAGAAAGTAAA  
GGTAAAGATGAAAAGAAATCCACGCCCTCTAGGGGCTCATCATCAAGTCGTCTCAAGGCAGCTAAGCGAGAG  
CTTCAAGAGCAAAGAGTTTGTGTCTAGTGATGAGAGCTTTCGGGAGAGAACAAGAGCAAAAAGAAGAGGAGGAG  
GAGCGAGGACTCTGAAGAAGAAGAACTAGCCAGTACTCCCCCAGCTCAGAGGACTCAGCGTCAGGATCCGATGA  
GTAGAAACGGAGGAAGGTTCTCTTTGCGCTTGCTTCTCACACCCCCGACTCCCCACCCATATTTGGTACCAG  
TTTCTCCTCATGAAATGCAGTCCCTGGATTCTGTGCCATCTGAACATGCTCTCCTGTTGGTGTGTATGTACTAG  
GGCAGTGGGAGACGTCTTAACCTGTGCTTCCCAAGGATGGCTGTTTATAATTTGGGAGAGATAGGGTGGGA  
GGCAGGGCAATGCAGGATCCAAATCCTCATCTTACTTTCCCGACCTTAAGGATGTAGCTGCTGCTTGTCTGTTT  
AAGTTGCTGGAGCAGGGGTGATGTGAGGCCAGGCCTGTAGCTCCTACCTGGGGCTATTTCTACTTTTCAATTTGT  
ATTTCTGGTCTGTGAAATGATTTAATAAAGGGAAGTACTTTGGAACCAAAAAAAGGAATTC

3487/6881  
**FIGURE 3216**

MAETLEFNDVYQEVKGSMDGRLRLSRQGIIFKNSKTGKVDNIQAGELTEGIWRRVALGHGLKLLTKNGHVYKYD  
GFRESEFEKLSDFFKTHYRLELMEKDLCVKGWNWGTIVKFGGQLLSFDIGDQPVFEIPLSNVSQCTTGKNEVTLEF  
HQNDDAEVSLMEVRFYVPPTQEDGVDPVEAFAQNVLSKADVIQATGDAICIFRELQCLTPRGRYDIRIYPTFLHL  
HGKTFDYKIPYTTVLRLFLPHKDQRQMFFVISLDPPIKQGQTRYHFLILLFSKDEDISLTLNMNEEEVEKRFEG  
RLTKNMSGSLYEMVSRVMKALVNRKITVPGNFQGHSGAQCI TCSYKASSGLLYPLERGFYVHKPPVHIRFDEIS  
FVNFARGTTTTTSFDFEIE TKQGTQYTFSSIEREEYGKLFDFVNAKKLNKRNRLKEGMNPSYDEYADSDQHD  
AYLERMKEEGKIREENANDSSDDSGEETDESFPNGEEEDVAEEFDSNASASSSSNEGDSRDEKKRQLKKAKM  
AKDRKSRKKPVEVKKGKDPNAPKRPM SAYMLWLNASREKIKSDHPGISITDLSKKAGEIWKGMSKEKKEEWDKA  
EDARRDYEKAMKEYEGGRGESSKRDKSKKKKKVKVMEKKSTPSRGSSSKSSSRQLSESFKSKEFVSSDESSSGE  
NKSKKKRRRSEDSEEEELASTPPSSSED SASGSDE

3488/6881  
**FIGURE 3217**

ATGGCCTCCCACGAAGTTGATAATGCAGAGCTGGGGTCAGCCTCTGCCCATGGTACCCCAGGCAGTGAGGCGGGA  
CCAGAAGAGCTGAATACTTCTGTCTACCAGCCCATAGATGGATCACCAGATTATCAGAAAGCAAAATTACAAGTT  
CTTGGGGCCATCCAGATCCTGAATGCAGCAATGATTCTGGCTTTGGGTGTCTTTCTGGGTTCCTTGCAATACCCA  
TACCACTTCCAAAAGCACTTCTTTTTCTTCACCTTCTACACAGGCTACCCGATTGGGGTGCTGTGTTTTCTGT  
AGTTCAGGAACCTTGTCTGTTGTAGCAGGGATAAAACCCACAAGAACATGGATACAGAACAGTTTTGGAATGAAC  
ATTGCCAGTGCTACAATTGCACTAGTGGGGACTGCTTTTCTCTCACTAAATATAGCAGTTAATATCCAGTCATTA  
AGGAGTTGTCACCTTTCATCAGAGTCACCGGACCTATGCAATTACATGGGCTCCATATCAAATGGCATGGTGTCT  
CTACTGCTGATTCTCACCTTGCTGGAATTATGCGTAACCATCTCTACCATAGCCATGTGGTGCAATGCAAAGTGC  
TGTAATTCAAGAGAGGAAATTCCTCACCTCCCAATTCTGTGTAA

3489/6881  
**FIGURE 3218**

AGGTTTCGGCGGGGGCTGCACGTGCGCAGGGGTGTGGAACTTACCGGCTGAGCCATGGATACACCGTTAAGGCG  
CAGCCGACGGCTGGGAGGCCTAAGGCCCAGATCCCCGAGAGCCTCACCTCAGTTTCGCGGACGAGACGGGCCCT  
TGTGGAGTTCGAGTCGAACCCAGAAGAAACGAGGGAGCCCGGGTCTCCTCCGAGTGTGCAGCGGGCTGGCCTGGG  
GTCCCCGAAAGGCCGCCGAAGACAAGCCCAGGATCACCCCGTCTGCAGCAGGGTGCAGGCTTGGAGTCAACCCCA  
AGGGCAGCCAGAGCCAGGCGCAGCGTCCCCCAGCGTCAGCAAGACCTACACCTGGAGTCGCCTCAAAGACAGCC  
AGAGTACAGTCTGAATCCCCACGATGTGAGCCGAAGCCAAGTGAGGAGGCACCAAAGTGTCTCAGGACCAGGG  
AGTACTGGCCTCGGAGTTGGCCCAGAATAAGGAGGAGCTGACCCCGGGGGCCCCCAGCATCAGCTACCGCCGGT  
CCCAGGATCACAGAGCCTTACCCCGGTGAGCAAGCTCCCGGTCCGGAGCCCTCTCAGCCACTACTGGAGCTGAC  
ACCCAGGGCACCTGGCTCCCCCGGGGTGAGCATGAGCCGAGCAAGCCACCTCCAGCTGGGAGACGGTGACAGG  
CGGCTTCGGGGCAAAGAAGCGAAAAGTTCTTTCATCCAGGCCCCAGCGTCCAAGAAGTTGAATAAAGAGGAGCT  
TCCTGTAATCCCGAAGGGGAAGCCCCAAATCGGGGCGAGTGTGGAAGGACCGCTCCAAGAAAAGATTCTCCAGAT  
GCTTCAGGACAAGCCCCCTGCGCACATCGTGGCAGCGGAAGATGAAGGAACGACAGGAGAGGAAGCTGGCCAAAGGA  
CTTTGCCCGTACCTGGAGGAGGAGAAGGAGAGGCGCCGCCAGGAGAAGAAACAGCGCCGGGCTGAGAACCTGAA  
ACGCCGCTGGAGAATGAGCGGAAGGCAGAGGTCTGTCAGTGATCCGAAACCCCGCCAAGCTCAAGCGGGCAA  
GAAGAAGCAGCTGCGCTCCATTGAGAAGCGGGACACCTGGCCCTGCTGCAGAAGCAGCCGCCCCAGCAGCCGGC  
AGCCAAGATCTGAGCTCAGGACGGCCCCGAGGCCTTCCATGGCCAACGACCATGTGAGACACAGCACCTCAGGCCG  
CTGCTCAGATGCCTCTGCTGGAGCTGGCACTCCAAACCCATGGCTCCAGAACGGGGACCCCCACCCCGACCGGGG  
CTCCTCGGCCTTTGAAGGCTTCCAGGCAGGTCTGTGTGGGACAGAAGCCCAGAGGGGGCCTGGGACCTGGCAGAG  
ATGGGGGGCGGAAGAGATTCAGCTCCCATCCCTCCTTCTCCTTCTCCAAGTGCCTTCAAACCAAGAAGTGT  
CATTCTTCTGGTTCCCTCAGTGAGCTGGTGACTGGCAGGTGACTCCCTCAGCAGTGTATGCCCTTCTCAGCATCC  
TAGGTCCATCCCAGGCCTGGAGGCTGACAGTTGGGAATCCAGCTTCCCCCACACCTTCCCAAAGGCTGCTCTGAG  
CACCTCCACACCCCACTGCCTCTGTCCCCAGCAAAGTGAATCCGGTTCTCTCCACTTTTCAATACTGAAAGATT  
AAAATGGGGAGGTTGCAGGGAGCAGAGCTTTCCCTAGCACCCACTTTCCCAAACCAAGTCTCTGCAGAAGCCCCA  
GAGAATCTAACTCATGCCTGTCCAGTCTACAGCAAAAATATTTATTGAGTGCCTGTTGCATACAGGCACAATCCT  
AGGCACCGGCAAATACAGACAATAGACCAAAGTCCCTGCCCTCGAGGAGCTTTCATTCTGATGGAGAGAAAACAT  
AATAACAAGCAAAATGCAAAAAAAAAAAAAAAAAA

3490/6881  
**FIGURE 3219**

MDTPLRRSRRLGGLRPESPELTSVSRTRRALVEFESNPEETREPGSPPSVQRAGLGSPERFPKTSFGSPRLQQG  
AGLESPQGQPEPGAASPORQDLHLESPQRQPEYSPESPRCQPKPSEEAPKCSQDQGVLAELAQNKEELTPGAP  
QHQLPPVPGSPEPYPGQAPGPEPSQPLLELTPRAPGSPRGQHEPSKPPPAGETVTGGFGAKKRKGSSSQAPASK  
KLNKEELFVIPKGKPKSGRVWKDRSKKRFSQLQDKPLRTSWQRKMKERQERKLAKDFARHLEEEKERRRQEKKQ  
RRAENLKRRLENERKAEVVQVIRNPAKLKRAKKKQLRSIEKRDTLALLQKQPPQQAARI

3491/6881  
**FIGURE 3220**

AATTCGGCACGAGGAGGTGCTGAAGGCTGTGGCGCGCGGCTGTCCCCATTCCCACGTGAAGCGCTACGCTAGCAT  
CGCTCGGCTGGCGGCTCCAGCTCGCCGCGGAGCAGTCCCGGCAGCAGCGGGGACCAGGAAGTGGCTCGCGGAGG  
CTCAGAAGCTAGTCCCGGAGCCCGCGTGTGGCGCCTCGGAGCACGGTGACGGCGCCATGTCCCTAATCTGCTCC  
ATCTCTAACGAAGTGCCGGAGCACCATGTGTATCCCTGTCTCTAATCATGTTTATGAGCGCGGGCTCATCGAG  
AAGTACATTGCGGAGAATGGTACCGACCCCATCAACAACCAGCCTCTCTCCGAGGAGCAGCTCATCGACATCAAA  
GTTGCTACCCAATCCGGCCCAAGCCTCCCTCAGCCACCAGCATCCCGGCCATTCTGAAAAGCTTTGCAGGATGAG  
TGGGATGCAGTCATGCTGCACAGCTTCACTCTGCGCCAGCAGCTGCAGACAACCCGCCAAGAGCTGTCACACGCT  
CTGTACCAGCACGATGCCGCTGCCGTGTCATTGCCGTCTCACCAGGAAGTCACTGCTGCCCGAGAAGCTCTG  
GCTACCTGAAACCACAGGCTGGCCTCATTGTGCCCCAGGCTGTGCCAAGTTCCCAACCAAGTGTGTTGGGTGCG  
GGTGAGCCAATGGATTGGGTGAGCTGGTGGGAATGACCCAGAGATTATTCAGAAGCTTCAAGACAAAGCCACT  
GTGCTAACACGAGCGCAAGAAGAGAGGGAAGACTGTGCTGAGGAGCTGGTGAAGCCAGAAGAGCTCAGCAAA  
TACCGGCAGGTGGCATCCACGTGGGGTTGCACAGTGCCAGCATTCTGGGATCCTGGCCCTGGACCTCTGCCCG  
TCCGACACCAACAAGATCCTCACTGGTGGGGCGGATAAAAATGTCTGTTGTGTTGACAAAAGTTCTGAACAAATC  
CTGGCTACCTCAAAGGCCATACCAAGAAGGTCACCAGCGTGGTGTTCACCTTCCCAGGACCTGGTGTGTTTCT  
GCTTCCCCCGATGCCACTATCAGGATTTGGTCCGTCCCCAATGCCCTCTTGTGTACAGGTGGTTCCGGGCCCATGAG  
AGTGCTGTGACAGGCCTCAGCCTTCATGCCACTGGCGACTATCTCCTGAGCTCCTCCGATGATCAGTACTGGGCT  
TTCTCTGACATCCAGACAGGGCGTGTGCTCACCAGGTGACAGATGAGACCTCCGGCTGCTCTCTCACCTGTGCA  
CAGTTCCACCTGACGGACTCATCTTTGGAACAGGAACCATGGACTCTCAGATCAAGATCTGGGACTTGAAGGAA  
CGTACTAATGTGGCCAACTTCCCTGGCCACTCGGGCCCCATCACTAGCATCGCCTTCTCTGAGAATGGTTACTAC  
CTGGCTACAGCGGCTGATGACTCCTCTGTCAAGCTCTGGGATCTGCGCAAGCTTAAGAACTTTAAGACTTTGCAG  
CTGGATAACAACCTTTGAGGTAAAGTCACTGATCTTTGACCAGAGTGGTACCTACCTGGCTCTTGGGGGCACGGAT  
GTCCAGATCTACATCTGCAACAATGGACGGAGATTCTTCACTTTACAGAGCACAGTGGCCTGACCACAGGGGTG  
GCCTTCGGGCATCACGCCAAGTTCATCGCTTCAACAGGCATGGACAGAAGCCTCAAGTTCTACAGCCTGTAGGCC  
CTGGCCCTTCTGATGGAAGCTGGGCCTCATCTCAGTAGAGGGGTAGAATTAGGGTTTGGGGGGGGGTGGGGGA  
ATCTATGGGGGGAGGGGGCTCTGTGGGGTGGGACATTACATCATTTCACTCTGGTCTGAGTGGTGGCCTGAGAA  
CCATGGTGGCATGGACCACCTCATCCATGCAACTCCAGGCCCCATGGGAACGGATGTGGAAGGAAGAACTGTCA  
CCCTCTTAAGCCCAGGGTCGGAGCCCAGGGCCTCTCCCTTCTGTCGTTCAATGGACGTGGTGGTGGCTGTTCC  
ACACCCATTTTGTGAGTTCTGTGAGACAGGAGAGGCTGAGCCAAGGGAAGTGAAGGGGATGGGCAGGAGG  
GCTTGTGCAGGGTTTTGTAAGCAGTGATCTAGTTTCATTAAAAAAGAAAACAATAACCATAACCAC



3492/6881  
**FIGURE 3221**

MSLICISISNEVPEHPCVSPVSNHVYERRLIEKYIAENGTDPINNQPLSEEQOLIDIKVAHPIRPKPPSATSIPAIL  
KALQDEWDAVMLHSFTLRQQLQTTROELSHALYQHDAACRVIA RLTKEVTAAREALATLKPQAGLIVPQAVPSSQ  
PSVVGAGEPMDLGELVGMTPEIIQKLQDKATVLTTERKKRGKTVPEELVKPEELSKYRQVASHVGLHSASIPGIL  
ALDLCPSDTNKILTGADKNVVFDDKSSEQILATLKGHTKKVTSVVFHPSQDLVFSASPDATIRIWSVPNASCVO  
VVRAHESAVTGLSLHATGDYLLSSDDQYWAFSDIQGRVLTKVTDETSGCSLTCAQFHPDGLIFGTGTMDSQIK  
IWDLKERTNVANFPGHSGPITSIAFSENGYYLATAADDSSVKLWDLRKLKNFKTLQLDNNFEVKSLIFDQSGTYL  
ALGGTDVQIYICKQWTEILHFTESGLTTGVAFGHHAKFIASGMDRSLKFYSL

3493/6881

**FIGURE 3222**

ATTGCTCTGGGAATTGCAGCCGCGGGGCGGGCGGGCGGGCGGGCGGGCGGGGACCCAGCGGGCCAGGTGGG  
GACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGGGACTGGGGCCACCTGAGCCGCCCCGCTCGTCCCCGCCTTC  
TGTGGGAAGGATGTGCGCGCGGATGGCCGGTCGCACAACAGCGGGCCCTCGGGGGCCCTACGGCCCTTGGCTCTG  
CCTCCTGGTGGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCCTGGACCTGTCTACCTGCA  
TGTGACAGCCGCGCCCGCCAGCCAGCCACACTCTGGACTGCCAAGCTGGACCGCTTCAAGGGCTCCAGGCACCA  
CACCACCCTCATCACCTGCCACCGTGTGGGCTCACAGAGCCAGATTCCAGCAGTCCCCCTGAACTGTCTGAGTT  
CCTATGGGTGGACTTTGTGGTGGAGAATAGCACTGGTGGGGGCGTAGCGGTCACTCGCCCCGTACGTGGCAGCT  
GGAGTACCCAGGCCAGGCCCTGAAGCAGAGAAGGACAAATGGTGTGGGAAATCCTGGTGTCTGAGCGGGACAT  
CAGAGCCCTTATCCCACTGGCCAAGGCTGAGGAGCTGGTGAATACAGCACCCTGACTGGAGTGCCCCAGCATGT  
CCCCGTGCGCCTTGTCACTGTGGACGGCGGGGGGGCCTTGGTGGAGGTGACAGAGCATGTGCGCTGCGAGTCTGC  
CAACACACAGGTCTGCAGGTGTCTGAGGCCTGTGATGCGGTGTTCTGTGGCTGGCAAGGAGAGCCGGGGCGCCCCG  
GGGGGTGCGAGTGGACTTCTGGTGGCGCGGGCTCCGCGCCTCGCTGCGGCTGACCGTGTGGGCCCCCTGCTACC  
GCTGCGTATCGAGCTACCGACACCACCTCGAGCAGGTCCGCGGCTGGAGGGTACCTGGCCCTGCTGAAGGGCC  
TGCGGAACCCGCTGCAGAGGCGTCGGATGAGGCCGAGCGGCGCGCCCGTGGCTGCCACCTGCAGTACCAGCGGGC  
CGGTGTGCGCTTCTCGCCCCCTTCGCGGCCCCACCCGCTGGACGGCGGGCGCCGCTCACGCACCTGCTTGGCCC  
CGACTGGCTGCTAGACGTGTCCCACCTCGTGGCGCCACACGCCCGCTGCTGGACTCGCGTGTAGCCTCTCTGGA  
GGGTGGCCGTGTCTGTGGTGGGCGGGAGCCCGGTGTACCTCCATTGAGGTGCGTTCCCCACTGTCTGACTCCAT  
CCTGGGGGAGCAGGCCTGGCTGTGACGGACGACAAGGTCTCAGTGTGGAGCTGAGGGTGCAGCCAGTGATGGG  
CATCTCGCTGACCTTGAACCGGGGCACTGCCCCACCCGGGGAGGTACAGCTACGTGCTGGGCACAGTCAGCCCT  
TCCCGCCCCAAAGCAGGAGGTGGCCCTCTCCCTATGGCTGTCTTCTCTGATCACACTGTGGCCCCAGCTGAGCT  
CTACGACCGCCGTGACCTGGGACTGTCCGTCTCAGCCGAGGAGCCTGGTGGCATCCTGCCAGCTGAGGAGCAGGG  
TGCCCAGCTCGGGGTGGTGGTGAAGTGGGGCAGGCGCCGAGGGGCTGCCGCTGCATGTGGCTCTGCACCCGCCCGA  
GCCCTGCCCGCGGGGCGCCACCGTGTGCCCTCTGGCCTCTGGCACCGCTGGCTGGGGCTGCCCCCTGCCTCCAC  
TCCAGCCCCTGCTCTCCCATCCAGCCCTGCTTGGAGCCCACCAGCCACAGAAGCCACCATGGGTGGTAAACGGCA  
GGTGGCAGGCAGTGTGCGGGGCAACACAGGTGTGAGGGGCAAGTTTGAGCGGGCAGAGGAGGAGGCCAGGAAGGA  
GGAGACCGAAGCCAGGGAGGAGGAGGAGGAAGAGGAGGAGGAGATGGTCCCTGCCCCCTCAGCATGTCACTGAGCT  
AGAGCTGGGCATGTACGCCCTGCTGGGAGTCTTCTGCGTGGCCATCTTCACTTCTTGGTCAATGGTGTGGTCTT  
CGTCTGCGCTATCAGCGCAAAGAACCTCCCGACAGTGCCACTGACCCACCTCCCCCAGCCCCACAACCTGGGT  
CTGGCTGGGCACTGACCAGGAGGAAGTGAAGCGCCAGCTGGACCGGCAGTCCCCCTGGCCCCGCCAAGGGGGAGGG  
GAGCTGCCCTGTGAGAGTGGGGGAGGAGGGGAGGCCCTACCCTGGCCCCCTGGCCCTCTGGGGGACACCAG  
CTCCTCAAGCACCCCTGGCCCGAAAGGAGGCTGGGGGGCGGCGGAAGCGAGTAGAGTTGTGACATTTGCGCCAGC  
CCCTCCAGCCCAGTCACCTGAGGAGCCTGTAGGGGCCCTGCTGTGCAGTCCATCCTTGTGGCAGGCGAGGAGGA  
CATCCGCTGGGTGTGTGAGGACATGGGGCTGAAGGACCTGAGGAGCTTCGCAACTACATGGAGAGGATCCGGGG  
CAGCTCCTGACCCTCCACAGCCACCTGGTCAGCCACCAGCTGGGGCAACGAGGGTGGAGGTCCCACTGAGCCTCT  
CGCTGCCCCCGCCACTCGTCTGGTGTGTTGTGATCCAAGTCCCCTGCCTGGTCCCCCACAAGGACTCCCATCCA  
GGCCCCCTCTGCCCTGCCCTTGTGATGGACCATGGTCTGTGAGGAAGGGCTCATGCCCCCTATTATGGGAACCA  
TTTCATTCTAACAGAATAAACCAGAGAAGGAACCCAG

3494/6881  
FIGURE 3223A

CAGCGGCAGTGGAGTTCGCTGCGCGCTGTTGGGGGCCACCTGTCTTTTCGCTTGTGTCCCTCTTTCTAGTGTGCG  
GCTCGAGTCCCGACGGGCGCTCCAAGCCTCGACATGTCTGACAACTACGTGGTAACGGCCCAAGAGCCACCGC  
CGTGAACGGCTGCGTGACCGGACACTTTACTTCGGCCGAAGACTTAAACCTGTTGATTGCCAAAAACAGAGATT  
AGAGATCTATGTGGTCACCGCCGAGGGGCTTCGGCCCGTCAAAGAGGTGGGCATGTATGGGAAGATTGCGGTCAT  
GGAGCTTTTCAGGCCCCAAGGGGAGAGCAAGGACCTGCTGTTTATCTTGACAGCGAAGTACAATGCCGTGCATCCT  
GGAGTATAAACAGAGTGGCGAGAGCATTGACATCATTACGCGAGCCCATGGCAATGTCCAGGACCGCATTGGCCG  
CCCCCTCAGAGACCGGCATTATTGGCATCATTGACCCTGAGTGCCGGATGATTGGCCTGCGTCTCTATGATGGCCT  
TTTCAAGGTTATTCCACTAGATCGCGATAATAAAGAACTCAAGGCCTTCAACATCCGCTGGAGGAGCTGCATGT  
CATTGATGTCAAGTTCCTATATGGTTGCCAAGCACCTACTATTTGCTTTGTCTACCAGGACCTCAGGGGCGGCA  
CGTAAAAACCTATGAGGTGTCTCTCCGAGAAAAAGGAATTCAATAAGGGCCCTTGGAAACAGGAAAATGTCGAAGC  
TGAAGCTTCCATGGTGATCGCAGTCCAGAGCCCTTTGGGGGGGCCATCATCATTGGACAGGAGTCAATCACCTA  
TCACAATGGTGACAAATACCTGGCTATTGCCCCCTCTATCATCAAGCAAAGCACGATTGTGTGCCACAATCGAGT  
GGACCTAATGGCTCAAGATACCTGCTGGGAGACATGGAAGGCCGGCTCTTCATGCTGCTTTTGGAGAAGGAGGA  
ACAGATGGATGGCACCCTCACTCTCAAGGATCTCCGTGTAGAATCCTTGGAGAGACCTCTATTGCTGAGTGCTT  
GACATACCTTGATAATGGTGTGTGTTTGTGCGGTCTGCGCTGGGTGACTCCAGCTTGTGAAGCTCAACGTGTA  
CAGTAATGAACAAGGCTCCTATGTAGTGGCCATGGAAACCTTTACCACCTTAGGACCCATTGTGATATGTGCGT  
GGTGGACCTGGAGAGGCAGGGGCGAGGGCAGCTGGTCACTTGTCTGCGGCTTTCAAGGAAGGTTCTTTGCGGAT  
CATCCGGAATGGAATTGGAATCCACGAGCATGCCAGCATTGACTTACCAGGCATCAAAGGATTATGGCCACTGCG  
GTCTGACCCTAATCGTGAGACTGATGACACTTTGGTGTCTCTTTTGTGGGCCAGACAAGATTCTCATGTTAAA  
TGGAGAGGAGGTAGAAGAAACCGAATGATGGGTTTCGTGGATGATCAGCAGACTTTCTTCTGTGGCAACGTGGC  
TCATCAGCAGCTTATCCAGATCACTTCAGCATCGGTGAGGTGGTCTCTCAAGAACCCTAAGCTCTGGTCAGTGAA  
TGGAAGGAGCCTCAGGCCAAGAATCAGTGTGGCCTCCTGCAATAGCAGCCAGGTGGTGGTGGCTGTAGGCAGG  
GCCCTCTACTATCTGCAGATCCATCCTCAGGAGCTCCGCGAGATCAGCCACACAGAGATGGAACATGAAGTGGCT  
TGCTTGGACATCACCCATTAGGAGACAGCAATGGACTGTCCCCTCTTTGTGCCATTGGCCTCTGGACGGACATC  
TCGGCTCGTATCTTGAAGTTGCCCTCTTTTGAAGTACTGCACAAGGAGATGCTGGGTGGAGAGATCATTCTCGC  
TCCATCCTGATGACCACCTTTGAGAGTAGCCATTACCTCCTTTGTGCCTTGGGAGATGGAGCGCTTTTCTACTTT  
GGGCTCAACATTGAGACAGGTCTGTTGAGCGACCGTAAGAAGGTGACTTTGGGCACCCAGCCACCGTATTGAGG  
ACTTTTCGTTCTCTTTCTACCACCAACGTCTTTGCTTGTCTGACCGCCCCACTGTCTATATAGCAGCAACCAC  
AAATTGGTCTTTCTCAATGTCAACCTCAAGGAAGTGAATACATGTGTCCCTCAATTCAGATGGCTATCCTGAC  
AGCCTGCGCTGGCCACAATAGCACCCCTCACCATTGGCACCATCGATGAGATCCAGAAGCTGCACATTGCGACA  
GTTCCCTCTATGAGTCTCCAAGGAAGATCTGCTACCAGGAAGTGTCCAGTGTTCGGGGTCTCTCCAGCCGC  
ATTGAAGTCCAAGACACGAGTGGGGGCACGACAGCCTTGAGGCCAGCGCTAGCACCCAGGCTCTGTCCAGCAGT  
GTAAGTCCAGCAAGCTGTTCTCCAGCAGCACTGCTCCTCATGAGACCTCCTTTGGAGAAGAGGTGGAGGTGCAC  
AACCTACTTATCATTGACCAACACACCTTTGAAGTGTCTTATGCCCACAGTTTCTGCAGAATGAATATGCCCTC  
AGTCTGGTTTCTGCAAGCTGGGCAAAGACCCCAACACTTACTTCATTGTGGGCACAGCAATGGTGTATCCTGAA  
GAGGCAGAGCCCAAGCAGGGTCGCATTGTGGTCTTTTCAGTATTCGGATGGAAACTACAGACTGTGGCTGAAAAG  
GAAGTGAAAGGGGCGGTGACTCTATGGTGAATTTAACGGGAAGCTGTTAGCCAGCATCAATAGCACGGTGGCG  
CTCTATGAGTGGACAACAGAGAAGGAGCTGCGCACTGAGTGCAACCACTACAACAACATCATGGCCCTCTACCTG  
AAGACCAAGGGCGACTTCATCCTGGTGGGCGACCTTATGCGCTCAGTGTCTGCTTGCCTACAAGCCCCATGGAA  
GGAACTTTGAAGAGATTGCTCGAGACTTTAATCCCAACTGGATGAGTGTCTGTGAAATCTTGGATGATGACAA  
TTTCTGGGGGCTGAAAATGCCCTTTAACTTGTGTGTGTCAAAAGGATAGCGCTGCCACCACTGACGAGGAGCGG  
CAGCACCTCCAGGAGGTTGGTCTTTTCCACCTGGGCGAGTTTGTCAATGTCTTTTGCCACGGCTCTCTGGTAATG  
CAGAATCTGGGTGAGACTTCCACCCCAACAAAGGCTCGGTGTCTTTCGGCACGGTCAACGGCATGATAGGGCTG  
GTGACCTCACTGTGAGAGAGCTGGTACAACCTCCTGTGGACATGCAGAATCGACTCAATAAAGTCATCAAAAGT  
GTGGGAAGATCGAGCACTCCTTCTGGAGATCCTTTCACACCGAGCGGAAGACAGAACCAGCCACAGGTTTCATC  
GACGGTGAAGTATTGAGAGTTTCTGGATATTAGCCGCCCCAAGATGCAGGAGGTGGTGGCAACCTACAGTAT  
GACGATGGCAGCGGTATGAAGCGAGAGGCCACTGCAGACGACCTCATCAAGGTTGTGGAGGAGCTAACTCGGATC  
CATTAGCCAAGGGCAGGGGGCCCTTTGCTGACCCTCCCCAAAGGCTTTGCCCTGCTGCCCTCCCCCTCCTCTCC

3495/6881  
**FIGURE 3223B**

ACCATCGTCTTCTTGGCCATGGGAGGCCTTTCCCTAAGCCAGCTGCCCCCAGAGCCACAGTTCCCCTATGTGGAA  
GTGGGGCGGGCTTCATAGAGACTTGGGAATGAGCTGAAGGTGAAACATTTCTCCCTGGATTTTACCAGTCTCA  
CATGATTCCAGCCATCACCTTAGACCACCAAGCCTTGATTGGTGTGCGAGTTGTCCTCCTCCGGGGAAGGATT  
TTGCAGTTCTTGGCTGAAAGGAAGCTGTGCGTGTGTGTGTGTGTATGTGTGTGTGTGTATGTGTATCTCACACT  
CATGCATTGTCTCTTTTTATTAGATTGGCAGTGTAGGGAGTTGTGGGTAGTGGGGAAGAGGGTTAGGAGGGTT  
TCATTGTCTGTGAAGTGAGACCTTCCTTTTACTTTTCTTCTATTGCCTCTGAGAGCATCAGGCCTAGAGGCCTGA  
CTGCCAAGCCATGGGTAGCCTGGGTGTAAAACCTGGAGATGGTGGATGATCCCCACGCCACAGCCCTTTGTCTC  
TGCAAACCTGCCTTCTTCGGAAAGAAGAAGGTGGGAGGATGTGAATTGTTAGTTTCTGAGTTTACCAAATAAAGT  
AGAATATAAGAAG

3496/6881  
**FIGURE 3224**

GCCTGCAACGTGTCTCTGGGGCGGAGGCAGCGGCAGTGGAGTTCGCTGCGCGCTGTTGGGGGCCACCTGTCTTTT  
CGCTTGTGTCCCTCTTTCTAGTGTGCGGCTCGAGTCCCGACGGGCCGCTCCAAGCCTCGACATGTCGTACAATA  
CGTGGTAACGGCCCAGAAGCCCACCGCCGTGAACGGCTGCGTGACCGGACACTTTACTTCGGCCGAAGACTTAAA  
CCTGTTGATTGCCAAAAACACGAGATTAGAGATCTATGTGGTCACCGCCGAGGGGCTTCGGCCCGTCAAAGAGGT  
GGGCATGTATGGGAAGATTGCGGTCATGGAGCTTTTCAGGCCCAAGGGGGAGAGCAAGGACCTGCTGTTTATCTT  
GACAGCGAAGTACAATGCCTGCATCCTGGAGTATAAACAGAGTGGCGAGAGCATTGACATCATTACGCGAGCCCA  
TGGCAATGTCCAGGACCGCATTGGCCGCCCTCATAGACCGGCATTATTGGCATCATGACCCTGAGTGCCGGAT  
GATTGGCCTGCGTCTCTATGATGGCCTTTTCAAGGTTATTCCACTAGATCGCGATAATAAAGAACTCAAGGCCTT  
CAACATCCGCTGGAGGAGCTGCATGTCATTGATGTCAAGTTCCTATATGGTTGCCAAGCACCTACTATTGCTT  
TGTCTACCAGG

3497/6881  
**FIGURE 3225**

AGCAGCTCAGTGCAACGGTGTGAACTCAGCCTGTTTCAGAGCCTCCACACCATGACCTCCAAGAAGCTGGTGAAC  
TCGGTGGCTGGCTGTGCTGATGACGCTCTTGCTGGCCTGGTGGCCTGCAACCCCAACCTGCAGCTCCTGCAGGGC  
CACCGCGTGGCCCTCCGTTCTGACCTGGACAGCCTCAAGGGCCGGGTGGCACTGCTGTGGGTGGGGGCTCTGGC  
CATGAGCCTGCCCATGCTGGTTTCATAGGGAAGGGGATGCTGACTGGGGTCATCGCGGGAGCTGTGTTCACTCC  
CCGGCAGTGGGCAGCATCCTGGCAGCCATCAGGGCCGTGGCCAGGCCGGCACAGTGGGGACGCTCCTTATCGTG  
AAGAACTACACTGGGGATCGGCTCAACTTCGGCCTGGCCCGGAGCAGGCCCGGGCTGAAGGCATCCCGGTGGAG  
ATGGTGGTGATTGGGGACGACAGCGCCTTCACTGTCTGAAGAAGCAGGCCGGCGGGGGCTGTGCGGCACGGTG  
CTTATACACAAGGTGGCAGGTGCTCTGGCTGAGGCTGGTGTGGGGCTGGAGGAGATCGCAAAGCAGGTGAACGTG  
GTCGCCAAGGCCATGGGTACCTGGGGGTGAGCTTATCCTCCTGCAGCGTCCCTGGTTCCAAACCCACCTTCGAG  
CTCTCAGCCGACGAGGTGGAGCTGGGCCTGGGGATCCACGGGGAAGCTGGTGTGCGCCGGATAAAGATGGCAACC  
GCCGATGAGATTGTGAAACTCATGCTCGACCACATGACAAACACCACCAACGCGTCCCATGTGCCTGTGCAGCCC  
GGCTCCTCAGTTGTGATGATGGTCAACAACCTGGGTGGCCTGTCAATTCCTGGAACGGGCATCATAGCCGACGCT  
ACCGTCCGCTCCCTGGAGGGCCGCGGGGTGAAGATTGCCCGTGCCCTGGTGGGCACCTTCATGTGCACTGGAG  
ATGCCTGGCATTCTCTCACCCTCCTGCTGGTGGATGAGCCTCTCCTGAAACTGATAGATGCTGAAACCACTGCA  
GCAGCCTGGCCTAACGTGGCTGCAGTCTCCATTACTGGGCGGAAGCGGAGCCGGGTAGCCCCCTGCCGAGCCCCAG  
GAGGCCCCCTGATTCCACTGCTGCAGGAGGCTCAGCCTCGAAGCGGATGGCGCTGGTGTGGAACGGGTGTGCAGC  
ACTCTCCTGGGCCTGGAGGAACACCTGAATGCCCTGGACCGGGCTGCTGGTGACGGCGACTGTGGCACCACCCAC  
AGCCGTGCGGCCAGAGCAATCCAGGAGTGGCTGAAGGAGGGCCACCCCTGCCAGCCCTGCCAGCTGCTCTCC  
AAGTTGTCTGTCTGCTCCTGGAGAAGATGGGAGGCTCATCTGGGGCGCTCTATGGCCTGTTCTGACTGCGGCT  
GCACAGCCCCCTGAAGGCCAAGACCAGCCTCCCAGCCTGGTCTGCTGCCATGGATGCCGGCCTGGAAGCCATGCAG  
AAGTATGGCAAGGCTGCTCCAGGGGACAGGACTATGCTGGATTCTCTGTGGGCAGCGGGGCAGGAGCTCCAAGCC  
TGGAAGAGCCCAGGAGCTGATCTGTTACAAGTCCTGACCAAGCAGTCAAGAGTGCCGAAGCTGCAGCCGAGGCC  
ACCAAGAATATGGAAGCTGGAGCCGGAAGAGCCAGTTATATCAGCTCAGCACGGCTGGAGCAGCCAGACCCCGG  
GCGGTGGCAGCTGCTGCCATCCTCCGGGCCATCTTGGAGGTCTTGAGAGCTAGGGTGTGTGACTGCCTCCCTTG  
GCCTCAGCTCCTCTCAGTGTGCTGAGGTGGCCTTTGTCACTTCCTTCTGCCTTCCAACCCCTACCTTCCCC  
GGCCTGGCCCCATTGGCCACCCTCTAAGTTGAGCAGGAAATCCTCCACCAAGCTTCCAGAACTACAGACAGCAC  
CCAGAGTGAGCTGGAGTGGGTCCCCATGCCTCTCCAGCATGCCCTTTCCCTTTGCAGGAGGGTGGAGTCCCTGGG  
TCATGCCCTCCCCTGCCAGCTCTGGGCTTCAGAGATAAGGCATTTTCCTTGTGCAGCCTTTACCTGGCAATCCTA  
ATTTGGTTTTAAGACTCCCTGTGAAATGCTTTCCGCACCTTAACCCAGTGAGCGTGAAAAAGAAAGTTAATAAA  
CTATAATACATGGAAGCAAGAAAAA

3498/6881  
**FIGURE 3226**

MTSKKLVNSVAGCADDALAGLVACNPNLQLLQGHRVALRSDLSLKGRVALLSGGGSGHEPAHAGFIGKMLTGV  
IAGAVFTSPAVGSILAAIRAVAQAGTVGTLLIVKNYTGDRLNFGGLAREQARAEGIPVEMVVGDDSAFTVLKKAG  
RRGLCGTVLIHKVAGALAEAGVGLEEIAKQVNVVAKAMGTLGVSLSSCSVPGSKPTFELSADEVELGLGIHGEAG  
VRRIKMATADEIVKLMLDHMTNTTNASHVPVQPGSSVMMVNNLGGLSFLELGIADATVRSLEGRGVKIARALV  
GTFMSALEMPGISLTLVVDEPLLKLIDAETTAAWPNVAAVSITGRKRSRVAPAEPQEAPDSTAAGGSASKRMA  
LVLERVCSTLLGLEEHLNALDRAAGDGDGCTTHSRAARAIQEWLKEGPPASPQLLSKLSVLLLEKMGGSSGAL  
YGLFLTAAQPLKAKTSLPAWSAAMDAGLEAMQKYGKAAPGDRTMLDSLWAAGQELQAWKSPGADLLQVLTCAVK  
SAEAAAEEATKNMEAGAGRASYISSARLEQDPGAVAAAAILRAILEVLQS

3499/6881  
**FIGURE 3227**

AGTCTGGCCGCCATGTTGGAGCTTTCGCTGTTTCGGGGCCCGGCCTGCTCCGGGCCCTCCCAGCGTCGCCGCTAGC  
TGACTTAGGGCTCCCGCCACACTGCGCACGGCCTTGCTGAGGGCCGGCTCGTAGTGGGAGGCTTCGCGTTCACC  
TGAACATTTCCGCCTCCTCTGGATGGGGGATGAGAGCGGGGCTGATGCATCGCAGCAGTCTGGACCCTGACTT  
CGGACTTGGAGAAGAAACGCCGAGGAGGAACGGGAGTTAGGGGGTTAGCAGCTTGGCGCGCTGGGAGCCGGCCAC  
CCCTGGTCTCCGGACTTCACTTCCCAGGAGGCCTCGCGCGGACTGGAAGTGCTGCGAGCCTATAAGAAGGCGAG  
GCGGCACCCGCCGCTCTGCTCTGGGGCGGCATTGCCAGCCGGCTGTAGGCATTAGGGCAGTGTCTTCTGCATCT  
CCTAGGAACCTCGGGAGCGGCAGCTCCGGCGCCTGGTAGCGAGAGGCGGGTTCCGGAGATCCCGCCTCACTTCG  
TCCCACTGTGGTTAGGGGTGAGTCTTCAAATGTTAAGTGATTGCTCAAGGTGCCATTTTCGAGGAATTGGAG  
CCCAGGCCAGTTCTCTGAGCCTATCATTAGGGCTAAAGGAGTGCGTGATCAGAATGGTGTCTGGACGGTTCTACT  
TGTCTTGCCTGCTGCTGGGGTCCCTGGGCTCTATGTGCATCCTCTTCACTATCTACTGGATGCAGTACTGGCGTG  
GTGGCTTTGCCTGGAATGGCAGCATCTACATGTTCAACTGGCACCAGTGCTTATGGTTGCTGGCATGGTGGTAT  
TCTATGGAGGTGCGTCACTGGTGTACCGCCTGCCCCAGTCGTGGGTGGGGCCAACTGCCCTGGAAACTCCTCC  
ATGCAGCGCTGCACCTGATGGCCTTCGTCTCACTGTTGTGGGGCTGGTTGCTGTCTTTACGTTTCAACCATG  
GAAGGACTGCCAACCTCTACTCCCTTCACAGCTGGCTGGGCATCACCAGTGTCTTCTCTTCCCTGCCAGTGGT  
TCCTGGGCTTTGCTGTCTTCTCTGCCCCTGGGCGTCCATGTGGCTGCGCAGCCTCCTAAACCTATCCACGTCT  
TTTTTGGAGCGCCATCCTCTCTCTGTCCATCGCATCCGTCAATTCGGGCATTAATGAGAAGCTTTTCTTCAGTT  
TGAAAAACACCACAGGCCATACCACAGCCTGCCAGTGAGGCGGTCTTTGCCAACAGCACCGGGATGCTGGTGG  
TGGCCTTTGGGCTGCTGGTGTCTACATCCTTCTGGCTTCATCTTGAAGCGCCCAGAGCCGGGGATCCTGACCG  
ACAGACAGCTGCTGCTACAGCTGAGGCCTGGATCCCGGCCTTTCCCTGTGACTTACGTGTCTGTACCGGCAGGC  
AGCCCTACAAATCCTGGTGACCTGCTCTCCCAAGAACAGAGCCTGTCCCAGATGTCCCAGTAGCGATGAGTAAC  
AGAGGTGGCTGTGGACTTCTCTACTTCTCCTTGCTGGATCAGGGCCTTCTGCCTCCCGCTGGGCAGGTCTGGC  
CTTGCTCTCTTGGCAGGGCCCCAGCCCCTCTGACCACTCTGCAGCTCACCATGCAGCTGATGCCAAAGTTGTGGT  
GTCCAGTGTGCAGCAGCCCTGGGAGCCACTGCCACCTTCAGAGGGGTTCCTTGCTGAGACCCACATTGCTTCACC  
TGGCCCCACCATGGCTGCTTGCCTGGCCCAACCTAGCGTTCTGTGCCATGCTAGAGCTTGAGCTGTTGCTCTTCT  
TCAGGGGAGGAAATAGGGTGG



3500/6881  
**FIGURE 3228A**

AAAGGGCCAGAGGTAGACATTGAAGGTCTGAAGGGAAGCTCAAAGGTCCCAAGTTTAAAGATGCCTGATGTACAT  
TTCAAAAGCCCACAAATCTCCATGAGTGACATTGATTTGAATTTGAAAGGACCTAAGATAAAAGGAGATATGGAC  
ATTTCGGTTCTTAACTGGAGGGAGATCTGAAAGGTCCCAAAGTGGATGTCAAAGGCCCTAAAGTGGGCATTGAC  
ACTCTGATATTGACATTCATGGTCCAGAAGGGAACTGAAGGGCCCCAAATTTAAATGCCTGACTTACACCTC  
AAGGCACCGAAGATCTCTATGCCTGAAGTTGACCTGAATCTGAAAGGTCCAAAGGTGAAGGGCGACATGGACATT  
TCTCTGCCCAAAGTGAAGGGCGACCTCAAGGGCCCCGAAGTTGACATCAGGGACCCCAAAGTGGACATTGATGTC  
CCAGATGTGGACGTTCAAGGCCCAGACTGGCACCTAAAAATGCCCAAAGTGAAAATGCCCAAAGTTCAGCATGCCT  
GGCTTCAAAGGAGAGGGGCCAGATGTGGATGTGAACCTGCCCAAAGGTGACATTGATGTCTCAGGACCCCAAAGTG  
GACGTTGATGTTCTGATGTGAATATCGAAGGTCCAGATGCGAAACTAAAGGGCCCCAAGTTCAAGATGCCTGAG  
ATGAGCATCAAAGCCCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGAT  
GTGGATGTTACCCTTCTTAAAGTGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGAC  
ATCAACACCCCTGATGTGGATGTTTATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAATTC  
AGCATGCCTGGCTTCAAAGGAGAAGGTCCAGATGTGGATGTGAGCCTGCCCAAGGCCGACATCGATGTCTCGGGA  
CCCCAAGGTGGACGTTGATATTCCAGATGTGAATATCGAAGGTCCAGACGCAAACTGAAGGGCCCCAAGTTCAAG  
ATGCCTGAAATAAATATCAAAGCTCCCAAGATCTCCATACCTGATGTTGACCTGGATTGAAAGGACCCAAAGTA  
AAAGGAGATTTTGATGTGTCTGTCCCTAAGGTTGAAGGGACTTTGAAAGGCCCAGAAGTAGATCTTAAAGGTCCA  
CGTCTGGATTTTGAAGGCCCTGATGCCAACTCAGTGGCCCATCTTTGAAGATGCCATCGCTGGAGATATCTGCT  
CCTAAAGTAAGTCTCTGATGTTGATTGTCATCTCAAGGCACCAAAAATTGGATTTTCAGGTCCGAAGTTAGAA  
GGTGGTGAAGTGGACCTCAAGGGACCCAAAGTTGAAGCTCCAAGCTTAGATGTACACATGGACAGCCAGATATT  
AACATCGAAGGGCCAGATGTTAAAATCCCCAAATTTAAGAAACCCAAGTTTGGATTGGGGCAAAAAGCCCCAAA  
GCTGACATCAAGTCACCTTCACTGGATGTCACTGTTCTGAGGCAGAGCTGAACCTTGAGACTCCTGAAATTAGT  
GTTGGTGGCAAGGGCAAGAAAAGTAAGTTAAAATGCCTAAATTCATATGAGTGGTCTTAAGATTAAGGCCAAA  
AAACAGGGATTTGACCTGAATGTTCTGGGGGTGAAATTGATGCCAGCTCAAGGCTCCGGATGTAGATGTCAAC  
ATCGCAGGGCCGGATGCTGCACTCAAAGTCGACGTGAAATCGCCAAAACCAAGAAAACGATGTTTGGAAAAATG  
TACTTCCCAGATGTAGAGTTTGACATTAAATCACCTAAATTTAAAGCTGAGGCCCTCTCCCTAGCCCCAACTG  
GAGGGTGAAGTCCAGGCACCTGATCTGGAACCTTTCTTTGCCAGCGATTACGTCGAAGGTCTTGACATCAAGGCG  
AAGGCTCCCAAGGTCAAGATGCCAGATGTGGACATCTCAGTGCCAAAAATAGAGGGTGACCTGAAAGGCCCCAAA  
GTGACGGCAAACTTGGGTGCACCTGACATCAACATCGAAGGCCTAGATGCTAAAGTCAAAACACCGTCTTCGGC  
ATTTCTGCCCCCTCAAGTCTCCATCCCTGATGTGAATGTAACCTTGAAAGGACCAAGATAAAGGGTGATGTCCCC  
AGCGTGGGACTGGAAGGACCAGATGTAGATCTGCAAGGTCCAGAAGCAAAAATTAAGTTCCCCAAGTTTCCATG  
CCCAAGATCGGCATCCAGGTGTGAAAATGGAGGGTGGGGGAGCCGAGGTCCATGCCAGCTACCTCTCTTGAA  
GGAGACTTGAGAGGACCAGATGTTAAGCTCGAAGGGCCGATGTTTCTCTAAAGGGGCCAGGAGTAGACTTGCTT  
TCAGTGAACCTCTCTATGCCAAAAGTCTCTGGGCCTGACCTTGATCTGAACTTGAAAGGACCAAGTTTGAAGGGA  
GACCTGGATGCATCTGTTCCAGCATGAAGGTGCATGCTCCAGGGCTCAACCTCAGTGGTGTGGTGGCAAAATG  
CAGGTGGGAGGAGACGGTGTGAAAGTGCCAGGGATCGATGCCACAACAAAGCTTAACGTGGGGGCACCAGATGTG  
ACACTGAGGGGACCAAGCCTGCAGGGAGATCTGGCTGTCTCTGGTGACATCAAATGCCCTAAAGTATCCGTAGGA  
GCTCCTGATCTAAGCTTGGAGGCATCCGAAGGCAGCATTAACCTTCCCAAATGAAGCTGCCCAATTTGGCATC  
TCTACTCCGGGGTCCGACTTGACGTCAATGCCAAGGGGCCACAGGTTTCTGGCGAACTGAAGGGGCCAGGTGTG  
GATGTGAACCTGAAAGGGCCTCGGATTTCAAGCACCGAATGTGGACTTAACTTGAAGGACCAAAAGTGAAAGGG  
AGCCTTGGGGCCACTGGTGAGATCAAAGGCCCCACTGTGCGAGGAGGTCTTCCAGGCATTGGTGTTCAGGCCCTA  
GAAGGAAACCTCCAGATGCCTGGAATTAAGTCTCTGGATGTGATGTGAACCTGCCAGGCGTGAATGTGAACTC  
CCAAGTGGGCAGATTTCTGGGCCTGAAATCAAAGGTGGTCTGAAAGGTTGAGAAGTAGGTTTCCATGGGGCTGCT  
CCTGATATCAGTGTGAAGGGGCCCTGCTTTAATATGCCATCTCCTGAGTCAGATTTTGGCATCAACTTGAAGGGC  
CCAAAAATCAAAGGAGGTGCGGATGTTTCAAGGGGTGTGAGTGGCCAGACATCAGCCTTGGTGAAGGGCATTG  
AGTGTTAAAGGTTCCGGGGGTGAGTGAAGGGACCCCAAGTCTCCTCTGCTCTCAACTTGGACACATCTAAGTTT  
GCTGGGGGCCTTCAATTTCTCAGGACCAAGGTGGAAGGAGGTGTGAAAGGAGGTGAGATTGGACTCCAGGCTCCT  
GGGCTGAGTGTCTGAGGCTCAAGGTCACTTGGAAAGTGGATCTGGAAGGTAACATTCCCTAAAATGAAGATC  
CCCAAATTTACCTTCTCTGGCCGTGAGCTGGTTGGCAGAGAAATGGGGGTGGATGTTCACTTCCCTAAAGCAGAG

3501/6881  
**FIGURE 3228B**

GCCAGCATCCAAGCTGGTGTGGAGACGGCGAGTGGGAAGAGTCTGAAGTCAAAC TGAAAAAGTCCAAGATCAAA  
ATGCCCCAAGTTTAATTTTTCCAAACCTAAAGGGAAAGGTGGTGTCACTGGCTCACCAGAAGCATCAATTTCTGGG  
TCCAAAGGTGACCTGAAAAGTTCAAAGGCCAGCCTGGGCTCTCTGGAAGGAGAGGCAGAGGCCGAAGCCTCTTCA  
CCGAAAGGCAAATTCTCCTTATTTAAAAGTAAGAAGCCACGGCACCGCTCAAATTCATTGATGAAAAGAGAG  
TTCTCTGGACCTTCCACCCGACGGGGACGCTGGAGTTTGAAGGTGGGGAAGTGTCTCTGGAAGGTGGGAAAGTT  
AAAGGGAAACACGGGAAGCTGAAATTCGGTACCTTTGGTGGATTGGGGTCAAAGAGCAAAGGTCAATATGAGGTG  
ACTGGGAGCGATGATGAGACAGGCAAGTTACAGGGGAGTGGGGTGTCCCTGGCCTCTAAGAAGTCCCGACTGTCC  
TCCTCTTCTAGCAATGACAGTGGGAATAAGGTTGGCATCCAGCTTCCCGAGGTGGAGCTGTCAGTTTCCACAAAG  
AAAGAGTAGCAGGCCTTTGTATGTGTGTACATATATATATATAAACAACATCAGCCTTGGGTGGTGTGTTCC  
TATATAAACTCCAAAGGGAAACACACCGACTGCCTCAGCAATCATGCAAAGACCTTGCCTGGCCCCGGTGGCAAGC  
GCTGAAAAACCGACCGCCTGTAGGCTCCTGGAACTATACAGATAGGTAAAGAGTTCCAAGTTCGTCC

3502/6881  
**FIGURE 3229**

MPKVKMPKFSMPGFKGEGPDVDVNLPKADIDVSGPKVDVDPDVNIEGPDALKGPKFKMPEMSIKAPKISMPDI  
DLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPKVDINTPDVDVHGPDWHLKMPKVKMPKFSMPGFKGEGPDVD  
VSLPKADIDVSGPKVDVDIPDVNIEGPDALKGPKFKMPEINIKAPKISIPDVLDLKGPKVKGDFDVSVPKVEG  
TLKGPEVDLKGPRLDFEGPDALKSGPSLKMPSEISAPKVTPAPDVLHLKAPKIGFSGPKLEGGEVDLKGPKVEA  
PSLDVHMDSPDINIEGPDVKIPKFKPKFGFGAKSPKADIKSPSLDVTVPEAELNLETPEISVGGKGKSKFKMP  
KIHMSGPKIAKAKQGFDLNVPGGEIDASLKAPDVDVNIAGPDAALKVDVKSPKTKKTMFGKMYFPDVEFDIKSPK  
FKAEPALPSPKLEGELQAPDLELSLPAIHVEGLDIKAKAPKVKMPDVDISVPKIEGDLKGPKVQANLGAPDINIE  
GLDAKVKTPSFGISAPQVSIPDVNVNLKGPKIKGDVPSVGLEGPVDLQGPDAKIKFPKFSMPKIGIPGVKMEGG  
GAEVHAQLPSLEGDLRGPDKLEGPVSLKGPVLDLPSVNLSPKVS GPDLDLNLKGPSLKGLDASVPSMKVHA  
PGLNLSGVGGKMQVGGDGVKVPIDATTKLNVGAPDVTLRGPSLQGLAVSGDIKCPKVS V GAPDLSLEASEGSI  
KLPKMKLPQFGISTPGSDLHVNAKGQVSGELKGPVGVNLKGPRISAPNVDFNLEGPKVKGSLGATGEIKGPTV  
GGGLPGIGVQGLEGNLQMPGIKSSGCDVNLPGVNVKLPTGQISGPEIKGGLKGSEVGFHGAAPDISVKGPAFNMA  
SPESDFGINLKGPKIKGGADVSGGVSAPDISLGEHLSVKSGGGEWKGPQVSSALNLDTSKFAGGLHFS GPKVEG  
GVKGGQIGLQAPGLSVSGPQGHLESGSGKVTFFPKMKIPKFTFSGRELVGREMGVDVHFPKAEASIQAGAGDGEWE  
ESEVKLKKSKIKMPKFNFSPKPGKGGVTGSPEASISGSKGDLKSSKASLGSLEGEAEAEASSPKGKFSLFKSKKP  
RHRNSNSFDEREFSGPSTPTGTLEFEGGEVSLEGGKVKGKHGKLFKFTFGGLGSKSKGHYEVTGSDDDETGLQGS  
GVSLASKKSRLSSSSSNDSGNKVGIQLPEVELSVSTKKE

3503/6881  
**FIGURE 3230**

TCCGGAAGGAGGCGAACCCCTGAGGCGGGCCCCGGCAAGCCTTCCCTGCGGCCGGCAGAGCCCAACGACTAGTGGGA  
CTCCGCGGGGGCGGGGTAGCTGGAGCCTGGCTCTGGCCTGGCAGGAGCCGAGCTTGTTCGGAAGAAGCCGAGC  
GGACGGGGGCCAGCCTCAGCGTCCCGGGAGTGAGGCGATAGCTGCGGCCGGCAGACGCGGGGCCGGGATGAACCG  
CGACGGCTGAGGCGAGCGAGGTGCCGGCTGCGCGGGCCCCAGTGAGACTCCCTCGAAGCGGCAGCCACCGTTTCG  
GGGCTTTGCTCTGAGCCGAGCCCTGCCCCCGGAGCCTCCCGGACCCCTTTGTGCGGCCGGAGGCGGCGCGGGA  
ACGGCCATGGCGGCCAACATGTACCGGGTGGGAGATTACGTCTATTTTGAGAACTCTCCAGCAATCCTTACCTG  
GTTAGACGGATTGAGGAGCTCAACAAGACTGCAAATGGAATGTGGAGGCAAAGGTTGTCTGTCTTTTCCGGCGC  
AGGGACATTTCTAGTAGCCTCAACAGCCTGGCTGATACTAATGCCAGGGAGTTTGAAGAGGAATCAAAGCAGCCA  
GGGGTGTCTGAGCAGCAGCGCCATCAACTGAAGCACC GGGAACTTTTCTTTCTCGGCAATTTGAATCATTACCA  
GCCACCCACATACGGGGGAAATGCAGTGTGACCCCTTGAATGAGACAGATATCTTGAGCCAGTACCTGGAAAAG  
GAGGACTGCTTTTTTACTACTGGTGTGTGACCCCGTGCAAGACACTTCTCGCTGATCAGGGCGAGATTAGA  
GTTGGTTGCAAATACCAAGCTGAGATCCCAGATCGCCTAGTAGAGGGAGAATCTGATAATCGGAACCAGCAGAAG  
ATGGAGATGAAGGTCTGGGACCCAGACAACCCCTCTCACAGACCGGCAGATCGACCAGTTTCTGTGGTGGCCCCGA  
GCTGTGGGAACCTTTGCAAGAGCCCTAGATTGTAGCAGCTCCATTGCGCAGCCAAGCTTGACATGAGTGCAGCT  
GCTGCCTCCCGAGATATCACTCTGTTTACGCCATGGATACCTTGCAAAGGAACGGCTACGACCTGGCTAAGGCC  
ATGTCGACCCTGGTACCCAGGGAGGCCCGGTGTGTGCGGATGAGATGGAGGAATGGTCAGCCTCAGAGGCC  
ATGCTATTTGAGGAGGCCCTAGAGAAGTATGGGAAGGACTTCAATGATATTCGCCAGGATTTTCTACCCCTGGAAG  
TCACTTGCCAGCATAGTCCAGTTTATTACATGTGAAAACACAGACCGGTATATTCAGCAGAAAAGGTTGAAA  
GCTGCTGAAGCAGACAGCAAACCTGAAACAGGTCTACATTCCCACCTACACTAAGCCAAACCCCTAACCAGATCATT  
TCTGTGGGTTCAAACCTGGCATGAATGGGGCTGGATTCAGAAGGGCCTGACTTGTGAGAGTTGCCACACCACA  
CAGTCTGCTCAGTGGTATGCCTGGGGCCACCTAACATGCAGTGGCGCCTCTGTGCTTCTGTGGATCTACTGG  
AAGAAGTATGGGGGACTGAAGACCCCAACTCAGCTTGAGGGGGCCACTCGGGGCACCAGGAGCCACACTCAAGG  
GGTCATTTATCCAGACCTGAAGCTCAAAGTCTCTCTCCTTACACAACCAGCGCCAACAGGGCCAAGCTACTGGCT  
AAGAACAGACAACTTTCTGCTTCAGACCACAAAGCTGACCCGTCTTGCCAGACGCATGTGCAGGGACCTATTA  
CAGCCAAGGAGGGCCGCCCCGACGGCCTTATGCTCCTATCAATGCCAATGCCATCAAAGCAGAGTGCTCCATTGCA  
CTTCCTAAGGCCGCCAAGACTCCATTGAAGATTACCCCTCTGGTGGGCTGCCCCCTGGCAACTATCGTCAAAGAT  
CTGGTGGGCCAGGCACCCCTGAAACCAAAAACACCTCGGGGTACCAAGACACCGATCAACAGAAACCAGCTGTCC  
CAGAACC GGCGACTGGGGGGCATTATGGTGAAACGGGCCTATGAGACTATGGCAGGGGCAGGGGTTCTTTCTCT  
GCCAATGGAAGGCCTCTGGCTTCAGGGATTCTGTTCAAGCTCACAGCCAGCAGCCAAGCGTCAGAACTAAACCCA  
GCTGATGCCCCCAATCCTGTGGTGTGTTGTGGCCACAAAGGATACCAAGGGCCCTACGGAAGGCTCTGACCCATCTG  
GAAATGCGGCGAGCTGCTCGCCGACCCAACTTCCCCCTGAAGGTGAAGCCAACGCTGATTGCAGTGCGGCCCCCT  
GTCCCTCTACCTGCACCTCACATCCTGCCAGCACCAATGAGCCTATTGTCTTGGAGGACTGAGCACCTGTGGGG  
AAGGGAGGTGGGCTGAGAGGTAGAGGGTGGATGCCAGGGCACCCAAACCTCCCTTCCCTTTCTGTGCGAAGGGA  
GTGAGGAGTGAATTAAGGAAGAGAGCAAGTGAGTGTGTGTCCCTGGAGGGGTTGGGCGCCCTCTGGTGTACCAC  
CTCGAGACTTGTCTCATGCCCTCCATGCTTGCCGATGGAGGACAGACTGCAGGAACCTGGCCCCATGTGGGAACCTA  
GCCTGTTTTGGGGGTTAGGACCCACAGATGTCTTGACAGTTTTGGGGGGAGGGTTTTTTAATTTTTTAAAGTT  
TTGCCCTCCCTTTGTGAAAGGGGATGGGGAGGGGAAGAGTAAACAGATAACAGGTGGTGGTACCTGGTGGGGGAG  
GGGGGCGTGCACTGCCATGTCTTTTTTTTTTTTTTTTTTTTTTCTAATTGGGGGTTTTCTTTCTGTCTC  
GGTGTCCGGACTTTCCTAATTGGAGTTTGAGGCCCTAAGCTGGCATCAACCCAGGCCACGCTCGCTCTTTCT  
TCCCTCCCTCCCTCTGCTTTTGTACGCCAGTTCTCAGAAATAAAGATCTTTTGTCCGTTTTTTTAAACCTCG  
GATTCTGTAATTGGTCTTATAGTAACAAATAAAAGCTGTTTTCTTCAGCTTCTCCTGG

3504/6881  
**FIGURE 3231**

MAANMYRVGDYVYFENSSSNPYLVRRIEELNKTANGNVEAKVVCIFRRRDISSSLNSLADSNAREFEEESKQPGV  
SEQQRHQLKHRELFSLRQFESLPATHIRGKCSVTLLNETDILSQYLEKEDCFFYSLVFDVPVQKTLLADQGEIRVG  
CKYQAEIPDRLVEGESDNRNQQKMEMKVWDPDNPLTDQRIDQFLVVARAVGTFARALDCSSSIRQPSLHMSAAAA  
SRDITLHFAMDTLQRNGYDLAKAMSTLVPQGGPVLCRDEMEEWSASEAMLFEAELEKYGKDFNDIRQDFLPWKS  
ASIVQFYWMWKTDRYIQKRLKAAEADSKLKQVYIPTYTYPNPNIISVGSKPGMNGAGFQKGLTCECHTTQS  
AQWYAWGPPNMQCRLCASCWIYWKYGGKLTPTQLEGATRGTTEPHSRGHLSRPEAQSLSPYTTSANRAKLLAKN  
RQTFLQTTKLTRLARRMCRDLLQPRRAARRPYAPINANAIAECSIRLPKAAKTPLKIHPVRLPLATIVKDLV  
AQAPLKPKTPRGTKTPINRNQLSQNRGLGGIMVKRAYETMAGAGVPFSANGRPLASGIRSSSQPAKRQKLNPA  
APNEPVFVATKDTRALRKALTHLEMRAARRPNLPLKVKPTLIIVRPPVFLPAPSHPASTNEPIVLED

3505/6881  
**FIGURE 3232**

GCAAACCTCTGCACAAGATATGGCGGCGGTAGCGGCAGTGGCGGCGCGTAGGAGGCGGTCTTGGGCGTCTTTGGTACT  
GGCTTTTTTAGGGGTCTGCCTGGGGATTACCCTTGCTGTGGATAGAAGCAACTTTAAGACCTGTGAAGAGAGTTC  
TTTCTGCAAGCGACAGAGAAGCATACGGCCAGGCCTCTCTCCATACCGAGCCTTGCTGGACTCTCTACAGCTTGG  
TCCTGATTCCCTCACGGTCCATCTGATCCATGAGGTCACCAAGGTGTTGCTGGTGCTAGAGCTTCAGGGGCTTCA  
AAAGAACATGACTCGGTTTCAAGATTGATGAGCTGGAGCCTCGGCGACCCCGATACCGTGTACCAGATGTTTTGGT  
GGCTGATCCACCAATAGCCCGGCTTTCTGTCTCTGGTCTGTGATGAGAACAGTGTGGAGTTAACCATGGCTGAGGG  
ACCCTACAAGATCATCTTGACAGCACGGCCATTCCGCCTTGACCTACTAGAGGACCGAAGTCTTTTGCTTAGTGT  
CAATGCCCGAGGACTCTTGGAGTTTGAAGCATGAGAGGGCCCTAGGGTCTCTTTCTCGGATAAGGTTAATCTCAC  
GCTTGGTAGCATATGGGATAAGATCAAGAACCTTTTCTCTAGGCAAGGATCAAAAAGACCCAGCTGAGGGCGATGG  
GGCCAGCCTGAGGAAACACCCAGGGATGGCGACAAGCCAGAGGAGACTCAGGGGAAGGCAGAGAAAGATGAGCC  
AGGAGCCTGGGAGGAGACATTCAAACTCACTCTGACAGCAAGCCGTATGGCCCCATGCTGTGGGTTTGGACTT  
CTCTCTGCCAGGCATGGAGCATGTCTATGGGATCCCTGAGCATGCAGACAACCTGAGGCTGAAGGTCACTGAGGG  
TGGGGAGCCATATCGCCTCTACAATTTGGATGTGTTCCAGTATGAGCTGTACAACCAATGGCCTTGATGGGTCT  
TGTGCTGTGCTCCTGGCACACAACCCCTCATCGGACTTGGGCATCTTCTGGCTCAATGCTGCAGAGACCTGGGT  
TGATATATCTTCCAACACTGCCGGGAAGACCTGTTTGGGAAGATGATGGACTACCTGCAGGGCTCTGGGGAGAC  
CCCACAGACAGATGTTTCGTGGATGTCAGAGACTGGCATCATTGACGTCTTCCCTGCTGCTGGGGCCCTCCATCTC  
TGATGTTTTCCGGCAATATGCTAGTCTCACAGGAACCCAGGCGTTGCCCCACCTTCTCCCTCGGCTACCACTA  
GAGCCGTTGGAATACCGGGACGAGGCTGATGTCTGGAAGTGGATCAGGGCTTTGATGATCACAACCTGCCCTG  
TGATGTCTATCTGGCTAGACATTGAACATGCTGATGGCAAGCGGTATTTACCTGGGACCCAGTCGCTTCCCTCA  
GCCCCGACCATGCTTGAGCGCTTGGCTTCTAAGAGGCGGAAGCTGGTGGCCATCGTAGACCCACATCAAGGT  
GGACTCCGGCTACCGAGTTCACGAGGAGCTGCGGAACCTGGGGCTGTATGTTAAAACCCGGGATGGCTCTGACTA  
TGAGGGCTGGTGTGGCCAGGCTCAGCTGGTTACCTGACTTCACTAATCCCACGATGAGGGCCTGGTGGGCTAA  
CATGTTTCAGCTATGACAATTATGAGGGCTCAGCTCCCAACCTCTTTGTCTGGAATGACATGAACGAACCATCTGT  
GTTCATGGTCCCTGAGGTACCATGCTCAAGGATGCCAGCATTATGGGGGCTGGGAGCACCGGGATGTGCATAA  
CATCTATGGCCTTTATGTGCACATGGCGACTGCTGATGGGCTGAGACAGCGCTCTGGGGGCATGGAACGCCCTT  
TGTCTATGGCCAGGGCCTTCTTCGCTGGCTCCCAGCGCTTTGGAGCCGTGTGGACAGGGGACAACACTGCCGAGTG  
GGACCATTTGAAGATCTCTATTTCCTATGTGTCTCAGCTTGGGGCTGGTGGGACTTTCTTCTGTGGGGCGGATGT  
GGGTGGCTTCTTCAAAAACCCAGAGCCAGAGCTGCTTGTGCGCTGGTACCAGATGGGTGCTTACCAGCCATTCTT  
CCGGGCACATGCCCACTTGGACACTGGGCGACGAGAGCCATGGCTGTTACCATCTCAGCACAATGATATAATCCG  
AGATGCCCTTGGGCCAGCGATATTCTTTGCTGCCCTTCTGGTACACCTCTTATATCAGGCCCATCGGGAAGGCAT  
TCCTGTCTATGAGACCCCTGTGGGTGCAGTACCCTCAGGATGTGACTACCTTCAATATAGATGATCAGTACTTGCT  
TGGGGATGCGTTGCTGGTTACCCGTGTATCAGACTCTGGAGCCCATGGTGTCCAGGTCTATCTGCCTGGCCAAGG  
GGAGGTGTGGTATGACATTCAAAGCTACCAGAAGCATCATGGTCCCAGACCCTGTACCTGCCTGTAACCTCTAAG  
CAGTATCCCTGTGTTCCAGCGTGGAGGGACAATCGTGCTCGATGGATGCGAGTGCGGCGGTCTTCAGAATGTAT  
GAAGGATGACCCCATCACTCTCTTTGTTGCACTTAGCCCTCAGGGTACAGCTCAAGGAGAGCTCTTTCTGGATGA  
TGGGCACACGTTCAACTATCAGACTCGCCAAGAGTTTCTGCTGCGTTCGATTCTCATTCTCTGGCAACACCCCTGT  
CTCCAGCTCAGCAGACCCTGAAGGACACTTTGAGACACCAATCTGGATTGAGCGGTGGTGATAATAGGGGCTGG  
AAAGCCAGCAGCTGTGGTACTCCAGACAAAAGGATCTCCAGAAAGCCGCTGTCTTCCAGCATGACCCGTGAGAC  
CTCTGTGTTGGTCTGCGCAAGCCTGGCATCAATGTGGCATCTGATTGGAGTATTACCTGCGATAA

3506/6881  
**FIGURE 3233**

MAAVAAVAARRRRSWASLVLAFLGVCLGITLAVDRSNFKTCEESSFCKRQRSIRPGLSPYRALLDLSLQGPDSL  
VHLIHEVTKVLLVLELQGLQKNMTRFRIDELEPRRPRYRVPDVLVADPP IARLSVSGRDENSVELTMAEGPYKII  
LTARPFRLDLEDRLSVNARGLLEFEHQRAPRVSFSDKVNLTLSIWDKIKNLSRQGSKDPAEGDGAQP  
TPRDGDKPEETQGKAEKDEPGAWEEFTKTHSDSKPYGPMVGLDFSLPGMEHVYGIPEHADNLRKLVTEGGE  
LYNLDFVQYELYNPMALYGSVPVLLAHNPRLDLGIFWLNAAETWVDISSNTAGKTLFGKMDYLQGSGETPQTDV  
RWMSETGIIDVFLLLGPSISDVFRQYASLTGTQALPPLFSLGYHQSRWNYRDEADVLEVDQGFDDHNLPCDVIW  
DIEHADGKRYFTWDP SRFPPQRTMLERLASKRRKLVAIVDPHIKVD SGYRVHEELRNLGLYVKTRDGS  
DYEWCWPGSAGYPDFTNPTMRAWWANMFSYDNYEGSAPNLFVWNDMNEPSVFNGPEVTMLKDAQHYGGWEHRDVHNIYGLY  
VHMTADGLRQRSGGMEPFVFLARAFFAGSQRFGAVWTGDNTAEWDHLKISIPMCLSLGLVGLSFCGADVGGFFK  
NPEPELLVRWYQMGAYQPFFRAHAHLDTGRREPWLLPSQHNDIIRDALGQRYSLLPFWYTLTYQAHREGIPVMRP  
LWVQYPQDVTTFNIDDQYLLGDALLVHPVSDSGAHGVQVYLPQGGEVWYDIQSYQKHHGPQTLYLPTLSSIPVF  
QRGGTIVPRWMVRRSSECMKDDPITL FVALSPQGT AQGELFLDDGHTFNYQTRQEFLLRRFSFSGNTLVSSAD  
PEGHFETPIWIERVVIIGAGKPAAVVLQTKGSPE SRLSFQHDPETSVLVLRKPGINVASDWSIHLR

3507/6881  
**FIGURE 3234**

CGCCGCTCGCGCCTCGGGCTCGGCTCGGGCTCCGGGATGTCGCGCTGTGCGACCTCCCGGGGCCCCAGGGCCA  
CCTGGGCCCTGCCCCGGCCACCCACGGTCCCGCGCCTCTCAGTGCTCAGGAGCTGTCCAGGAAATCAAGGCTTTT  
CTGACTGGCGTAGACCCCATTTCTGGGCCACCAACTCTCAGCCCGGAACATGCTCGCTGTGGTCTTCTCCTGCTC  
CGTTCTTTGCCACCTGCTCGGGCTGCTGTGCTTGACCACTTGAGAGGTGTCTTTGATGAGAGTGTCGGGCCCCAC  
CTGGCTGCCCTGGATGAAACCCCTGTGGCTGGTCCACCTCACCTCCGTCCACCTCCACCCTCTCATGTCCCTGCT  
GGTGGACCTGGTCTAGAGGATGTGGTTAGGAAGTGCAGCAGGTGCTGTCTGAGTTTATCCGGGCCAACCCAAAG  
GCCTGGGCACCTGTGATTAGTGCATGGTCCATTGACCTCATGGGGCAACTGAGCAGCACGTACTCAGGCCAGCAC  
CAGCGTGTTCACCGCTACTGGCGCTCTTAATGAACTGCTACAGCTGTGGATGGGTTGTAGGGCCACGCGTACA  
TTAATGGACATCTATGTGCAGTGCCTCTCGGCTCTCATTGGTAGCTGCCAGATGCGTGTGTGGATGCCTTGCTG  
GATACCTCTGTTCAGCATTCTCCACACTTTGACTGGGTTGTGGCACATATTGGCTCCTCTTTTCTGGCACCATC  
ATTTCCCGGGTTCTCTCCTGTGGCCTTAAGGACTTTTGTGTCCATGGTGGGGCTGGAGGTGGAGCTGGCAGTAGT  
GGTGAAGCTCTTCTCAGACCCCTCTACAGACCCCTTCCCTGGATCTCCTGCCATTCTGCGGAGAAACGGGTG  
CCCAAGATTGCCCTCAGTTGTAGGCATCCTAGGTACCTGGCCTCCCGCCACGGAGATAGCATCCGACGGGAGCTC  
CTGCGAATGTTCCATGATAGCCTGGCAGGGGGATCTGGAGGCCAGTGGGGACCCCTCCCTTCAGGCCACGGTT  
CCGTTCTACTGCAGCTGGCAGTCATGTCACCAGCTTTGCTGGGCACTGTCTCTGGAGAGCTTGTGGATTGCCTC  
AAGCCCCAGCTGTGCTGAGCCAGCTGCAGCAACACCTTCAAGGATTCCCCGAGAGGAGCTGGACAACATGTTG  
AACCTGGCTGTGCACCTGGTGGCCAGGCCTCTGGGGCAGGTGCCTACCGCTTGTGTCAGTTCTTGGTGGACACA  
GCTATGCCTGCTTCGGTCAATTACACCCAGGGCCTGGCTGTGCCAGACACCGTGCCTGAGGCTTGTGACCGCTA  
ATCCAGCTGCTGCTGCTGCACCTGCAAAAACCTGGTTCATCACCGGGGAGGGTCTCCTGGGGAAGGGGTGCTAGGC  
CCGCCCCACCTCCCCGCTTGGTGCCCTTTTTAGATGCGCTCAAAAACCATGTTGGAGAGCTGTGTGGAGAGACG  
TTACGATTGGAACGGAAGCGCTTCTCTGGCAGCACCAGCTCTTGGGCTGCTGTCTGTCTATACCGGCCTAGC  
TGTGGACCTGAGGCCTTGGGCCATCTGCTGAGCCGAGCCCGAAGCCCTGAAGAGTTGAGTTTGGCCACCCAGTTA  
TATGCAGGGCTAGTGGTCAGCCTCTCTGGCCTCTGCCCCCTGGCTTTCCGAAGCTGTCTGGCTCGGGTGCATGCA  
GGGACATTACAGCCTCCCTTCACGGCCCCGTTCTGCGCAACTTGGCACTGCTAGTAGGGTGGGAACAGCAGGGT  
GGCGAGGGCCCTGCAGCCCTAGGGGCGCACTTTGGGAATCTGCCTCAGCCCATCTGTCTGACCTGGCTCCTCTC  
CTGCTACATCTGAGGAGGAAGTAGCTGAAGCTGCTGCCTCTCTCCTGGCCATTTGTCCCTTTCTTCTGAAGCC  
TTATCCCCCTCCAGCTCCTGGGACTGGTAAGGGCTGGGGTGCACCGCTTCTTTGCTCTCTGAGGCTGCATGGA  
CCCCCAGGTGTGGCCTCAGCCTGTGAGCTTCTACCCGCTGTCTCAGACATCCCCAGCTGGGCTCAAGGCTGTC  
CTGCAGCTGCTGGTTGAAGGAGCCTTACATCGAGGCAACACAGAACTGTTTGGTGGGCAAGTAGATGGGGACAAT  
GAGACTCTCTCAGTTGTTTCAGCTTCTTTGGCTTCTGCCTCCCTGTTGGACACTAACCGGAGGCACACTGCAGCT  
GTGCCAGGTCTTGGAGGGATTGGTCAGTTTTCCATGCTGGAGTCATCGGCCGTGGCTTAAAGCCACCCAAGTTT  
GTCCAGTCACGAAATCAGCAGGAAGTGATCTATAACACCCAGAGCCTCCTCAGCCTCCTGGTTCACTGCTGCAGT  
GCCCCAGGGGGCACTGAATGTGGGAATGCTGGGGGGCACCCATCTTGAGTCCAGAGGCAGCCAAAGCAGTGGCA  
GTGACCTTGGTGGAGAGTGTGTGTCCCGATGCAGCTGGTGCAGAGCTGGCCTGGCCCCCGAGGAACACGCCCGG  
GCCACCGTGGAGCGGGATCTCCGCATTGGCCGGCGCTTCCGCGAACAGCCCTGCTCTTTGAGCTGTTAAAGCTG  
GTAGCAGCTGCACCCCCAGCCCTGTGCTACTGTTCCGTGCTGCTTCGGGGGCTGCTGGCCGCCCTCTTGGGCCAT  
TGGGAAGCCTCTCGCCACCCTGACACGACCCACTCCCCCTGGCACCTGGAGGCATCCTGCACCTTAGTGGCTGTC  
ATGGCTGAGGGAAGCCTCCTGCCTCCGGCCCTGGGTAATATGCATGAAGTATTTAGCCAACCTGGCACCTTTCGAG  
GTGCGTCTGCTGCTGCTCAGTGTCTGGGGTTTTCTCCGGGAGCATGGGCCCTTGCCCTCAGAAGTTCACTTCCAA  
TCAGAGCGGGGTGCTTCACTCGGGACTTCTCCAGGGAGGGTGGAGGTGAGGGTGGACCCCATCTGGCTGTGCTG  
CACAGTGTCTCCACCGCAACATCGACCGCTAGGTCTTTTCTCTGGCCGTTTCCAGGCACCTTCACCGTCCACT  
CTCCTTCGACAGGGGACGTAGCCTTTTCTTGTCTGGAAGCCAGGGAGGTTGAGCAGTGAGAGAGGGGAAGGGAC  
TAACGTGCTCCGGAAGGGTGGAGGTTTCTCTTCTAAGTCCTTGGTCTAAAGAGCGCTGTCACTTTTTTCTCTCCC  
ACTTTTTTTTTTCTAAATAAAATTTGCCAACTTG



3508/6881  
**FIGURE 3235**

MSALCDPPGAPGPPGPAPATHGPAPLSAQELSQEIKAFLTGVDPILGHQLSAREHARCGLLLRLSPPARAAVLD  
HLRGVFDESVRHAALDETPVAGPPHLRPPPPSHVPAGGPGLEDVVQEVQQLSEFIRANPKAWAPVISAWSID  
LMGQLSSTYSGQHQRVPHATGALNELLQLWMGCRATRTLMDIYVQCLSALIGSCPDACVDALLDTSVQHSPhFDW  
VVAHIGSSFPGTIISRVLSCGLKDFCVHGGAGGGAGSSGGSSSQTPTDFFPGSPAIPAERVPKIASVVGILGH  
LASRHGDSIRRELLRMFHDSLAGGSGGRSGDPSLQATVPFLLQLAVMSPALLGTVSGELVDCLKPPAVLSQLQQH  
LQGFPREELDNMLNLAVHLVSQASGAGAYRLLQFLVDTAMPASVITTQGLAVPDTVREACDRLIQLLLLHLQKLV  
HHRGGSPGEGVLGPPPPRLVPFLDALKNHVGELCGETLRLERKFLWQHQLLGLLSVYTRPSCGPEALGHLLSR  
ARSPEELSLATQLYAGLVVSLSGLLPLAFRSCLARVHAGTLQPPFTARFLRNLALLVGWEQQGGEGPAALGAHFG  
ESASAHLSDLAPLLLHPREEVAEAAASLLAICFPFSEALSPSOLLGLVRAGVHRFFASLRLHGPPGVASACQLLT  
RLSQTSPAGLKAVLQLLVEGALHRGNTELFGGQVDGDNETLSVVSASLASASLLDTNRRHTAAVPGGGIWSVFH  
AGVIGRGLKPPKFVQSRNQEVYINTQSLLSLLVHCCSAPGGTECGECWGAPILSPEAAKAVAVTLVESVCPDAA  
GAELAWPPEEHARATVERDLRIGRRFREQPLLFELLKLVAAPPALCYCSVLLRGLLAALLGHWEASRHPDTTHS  
PWHLEASCTLVAVMAEGSLPPLALGNMHEVFSQLAPFEVRLLLSVWGFLREHGFLPQKFIQSERGRFIRDFSR  
EGGEGGPHLAVLHSLHRNIDRLGLFSGRFQAPSPSTLLRQGT

3509/6881  
**FIGURE 3236**

GAGGAACATGATTTTATTGGTTCTTTTCAGTTACCCACATCCGACTCGCGTCTCGGCCCTGGCCCGCCTTGCGGAC  
CTTAAAGCAGTCAGTCCAGGGTTTGGGGGAAACGTGCTACCCGACGGCAGCTCACAGGACCCCGAGAGTCTTG  
GCATGGTATCTCGGTCCGACTCTCCGCTGGGCCACGAAGGAGAAAGGCTGCCTCGGATTCTGCGCCCAAGCC  
AAGGTCGGCGGCCACGGAGGCAAGTCCGGTCTCACGGTGACCTCCCGCTGGCGCCGCCTTCGCCGCCAACCATC  
CAGTTCTTCTCCAGGCCACGTTCTCCTGCGTGGTGCCTGCTGAGGTCAGGAGGCAATAGCTGCTGGGTG  
CTGGCCGCCTCTCCCTGCTCCTTGGGTCTGCAGTGGCATCTCCTGAGGGCAGGAAGGGGAGTTCGCAGGAGCT  
CCAGTCCGGGGCTCTCCACCCGCCACCCTTCTCGGGACTACCAGTTGCTTCTACCTTTAGCATTTCCTGCTTC  
CGCCGCTCTCCCGGGGTCACGATAACGAGGAGCGCGTAGCCACGCCAGCCCTGCGCCAGCATTGCGACTGAG  
ATCAGCATTTTCCGCAAGGAATCCATGGCCGCTGCACAGCCAGCGGAGCGCCACGGGAGCTCCCCGAGCCGC  
AAGCTGTTGCCGCGCGGTCTCACTACCCCTTGGCGCAGGCTAGAGCGCCCTATAGCAGAAACCATAGATAAGCGG  
CCGGCTAGAGAGGACCTGCTCGAGGAAACGTTTGAATCCGGAGCGCTTGGATCTCAGGTTTAGCTGAGGGGGT  
GAGGTGTCCAAGAAGTGTGGCACCAAGGGCTGAGCGCGGGGACCCTGTGTCTCAATTCCGGGGTGGGATTGCT  
AGGGGGAGAGTGCCTGCTTCAATGGTTGCCGTGGGTTTTATGATTGCCATTTTCTGTCTTCCGACGTTTCCCG  
ATCAGTAGAGGCCCCGAGCTGTGCTCTGTGGTTTCTGTCAGTACCCGCGAGTTTCAACACAGCGCATGGAGGGC  
ATCTACACACATACATCCCTCTCCATCCCTCAACTCTGGAACAAACACTCAAAGTCAAGTATACTGGTTGGA  
GAAATGGGTAATAGTTACTTATCTTTAACATTTATTTTACAAACAACCTATTCTTTTCTCGTCATGGTACACAC  
TTGGTATTGTTTGGGTTTTTTTTGGTTTTGTTGTTGTTGTTAGTGTGTGGGCGTGGTTTTGTTTGTGTTTTGGAG  
ACAAGGTCTCGCTCTGTGCCCCAGGGCTGGAGTGCAGTGGCGCATCATGGCTACTGAAGCCTCGACTTCCAGG  
GCCCCAAGCGATCCTCTGCTCAACCTCCCGGATAGCTGGGATTACAGGCGTGCACCACCAGCCCGGCTGGTAT  
TGCTTTTTGTTTTGCTTCTTTTTTGTCTTTTGAGACAGAGTCTCACTCTGTTGCCAGCTGGAGTGCAG  
TGGCGTGATCTCGGCTCACTGCAAGCTCTGCCTCCCGGGTTCAGCCATTCTCTGCTCAGCTCCCCGAGTAGC  
TGGGACTACAGGCGCCGCCACCACGGCCGGCTAATTTTTTGTATTTTTAGTAGAGAAAGAGTTTCACTATGTAG  
GTCAGGCTGGTCTCGAACTCTGACCTCGTGATCCGCCAATCCGCCACCTCGGCCTCCCAAAGTGTGGGATT  
ACAGGTGTGAGCCACCGCGCCCGGCTGTTTTGCTTTGTTTTCAACCACTAAAAGGCTGGATTCTGTAAACATACT  
GAATTCTGCTTTACAGAAGAAAACACCTCTTAGCTGTGTGACTGATTATAGGCAAGTCTTGTGCCCGGTTTTCT  
GCATCAGAAAATGAAGCTTATAACAACAGTACTTGTCTCACAGTTTAGGATAATTAAATTAGTTATATGTAAAG  
CAATTAACAGCTCCTGCCAAAGAGTAAACACCATATAAATATTCAATTAATAACATACAAACATACCAGGTTG  
GGAAAATCAGTAAGCATAGGAGTCAGGAAATCCAAGTTGGTTATCACAACTCTTGGCCACAGGGCTTAAATC  
CAGGTGCCCTTGTCTCCTACCTTGTGTCATCCAGTGTCTCCAGGGAGTAAGTAGAAAATAAGATCCTATCTC  
ACCTCTTGGGCATTTTCCCTGCCCTGAAAGCGTATAATCGCTTAGCACAGTCCGTGCTTAAGGGGCCAGGCTCC  
AAAGAAGATTAAAGGAACAGTTTGTGGGGTGCCTGGGCAGCAGTACTCTCCTCTGAGTTCAATCATCTTGCACT  
CTAAGAATCACACCATGGCCCTTGTGCCAGGGAGAAGCAAGGAGGATGGGCTTTGGACTAGAAATAGCCCAGGC  
TCCTCCCAGCATCCAGAAAGTCCAGGCTGCCCAACCTCTCTGGGACAGAGGAAAAATTGGCAAGGTTGAAGGT  
CACCAGCACATTAGGATTTCTCTCAAAAGTCCCATCTGCCGTCTATTGTGGTGAATCCAGTGAGGTGAATGAA  
GAGAGTGGGGATCTCCATTTGCCCCATGAGGAGCTGCTGCTGCTCACTGATGGTGAGGAAGAGGATGCTGAGGCC  
TTCTTTCAAGACCAAGTGAAGAGCCAGGCTGGGCTTGGAGCCACAGGACCCTAGAAGTCTTTAAGAACATTT  
AACGCTGGACTCAGCTGGGGGACAGGACAGGATGAAGAAGATGCTTGTGGATTCTTGAGGACACAGCATGTCTG  
GAAGCCACCAACCACTGTCCCTTCTGGGACTCAACAGGCTCCCGTGTGTTAGTAAGTGGCTTTGTGGAATATTC  
CATCTCCTGCCTCCTAATAGCTTTGAGGGAGCTGAAGAAGAAGCTGTTCAAACGCCGGCGGGTGTGTAATCGGGA  
GCGGCGTCTGAGGCACCGGGTGGTCGGGGCTGTGATAGACCAAGGGCTGATCACGCGGCACCACCTCAAGAAGCG  
GGCGTCCAGTGCACGTGCCAACATTACACTGTACAGGGAAGAAGCGCAGAAAACCTCCTCCAGCAGATCCGGCTTGC  
CCAGAAAGAGAAGACAGCCATGGAAGTGAAGCCCCCTCAAAGCCAGCCAGGACTAGTGAACCACAGCTCAAAAG  
GCAAAAGAAGACAAAAGCCCCCAGGATGTAGAAATGAAGGACCTTGAAGATGAGAGCTAAACCTCTTCCACTAG  
AAGATTCTCAACTGGAGCCAGCCTTCAGACTCAGTGGTTGTTTTCAGAGGACTTTGACAAAAGCAAGGCCCTTT  
CACTCTCCAGATTTCTCCTACCTAATGGCCTACTGACCTCCCTAGAGGGATGTCTTTGGGAGGGAAGAAGGTA  
CAGAAGAAAGATTGGAGAAGGGCTCTCTAGCAGTCAACTCCATTTGTAATAAGCCCTAGCACTCTGAAAAAAA  
AAAAA

3510/6881  
**FIGURE 3237**

MKKMLVGFLRTQHVWKPPTTVPSGTQQAPVFVEVALWNIPISCLLIALRELKKKLFKRRRVLNREERLRHRVGA  
VIDQGLITRHHLLKKRASSARANITLSGKKRRKLLOQIRLAQKEKTAMEVEAPSKPARTSEPQLKRQKTKAPQDV  
EMKDLEDES

3511/6881  
**FIGURE 3238**

GGCACGAGGGGCTGCTATAGAGCCGGGTGAGAGAGCGAGCGCCCGTCGGCGGGTGTCGAGGGCGGGTTGCCTCGC  
GCTGACCCCTCCCGCCCTCCTTCTCGTCACACACCAGGTCCCCGCGGAAGCCGCGGTGTCGGCGCCATGGCGGAG  
CTGACGGCTCTTGAGAGTCTCATCGAGATGGGCTTCCCCAGGGGACGCGCGGAGAAGGCTCTGGCCCTCACAGGG  
AACCAGGGCATCGAGGCTGCGATGGACTGGCTGATGGAGCACGAAGACGACCCCGATGTGGACGAGCCTTTAGAG  
ACTCCCTTGACATATCCTGGGACGGGAGCCCACTTCCTCAGAGCAAGGCGGCCTTGAAGGATCTGGTTCTGCT  
GCCGAGAAGGCAAACCGCTTTGAGTGAAGAGGAAGACAGGAACAACTAAGAGGATGTTGGAGCTGGTGGCC  
CAGAAGCAGCGGGAGCGTGAAGAAAGAGAGGAACGGGAGGCATTGGAACGGGAACGGCAGCGCAGGAGACAAGGG  
CAAGAGTTGTCAGCAGCACGACAGCGGCTACAGGAAGATGAGATGCGCCGGGCTGCTGAGGAGAGGCGGAGGGAA  
AAGGCCGAGGAGTTAGCAGCCAGACAAAGAGTTAGAGAAAAGATCGAGAGGGACAAAGCAGAGAGAGCCAAGAAG  
TATGGTGGCAGTGTGGGCTCTCAGCCACCCCACTGGCACCAGAGCCAGGTCCTGTTCCCTCTTCTCCAGCCAG  
GAGCCTCCACCAAGCGGGAGTATGACCAGTGTGCATACAGGTGAGGCTGCCAGATGGGACCTCACTGACCCAG  
ACGTTCCGGGCCCCGGGAACAGCTGGCAGCTGTGAGGCTCTATGTGGAGCTCCACCGTGGGGAGGAAGTAGGTGGG  
GGCCAGGACCTGTGCAATTGCTCAGTGGCTTCCCCAGACGGGCCTTCTCAGAAGCTGACATGGAGCGGCCTCTG  
CAGGAGCTGGGTATGGCTGCAAGACTAGAAACCAGGACTAGAACTGGGGGAGTAGGGAGGCATGCCTAGGAAAA  
GGAGGGATGCAAGAGAAGGGGCTTTGTGAACATGGTGCAGGCCAGGAATTTGGGAGCAAAAACCAAGTATCC  
TTGTGGTTCAAGCCTGTTTCTTCCATCTTCAGGACTCGTGCCTTCTGCTGTTCTCATTGTGGCCAAGAAATGTC  
CCAGCTGAGGGCCTTTGTCCATTGTCCCTCTGTGACCCCTTCATCTTTGATAAAGCACTGACATCTCCTTCCTA  
ATAAATAGACCCTGAGTTCTGTAAAAA

3512/6881  
**FIGURE 3239**

MAELTALES LIEMGFPRGRAEKALALTGNQGIEAAMDWLMEHEDDPDVDEPLETPLGHILGREPTSSEQGGLEGS  
GSAAGEGKPALSEEERQEQTMRLELVAQKQREEREEREEREALERERQRRRQGQELSAARQLQEDEMRRAAEER  
RREKAEELAAARQVRVREKIERDKAERAKKYGGSVGSQPPVAPPEPGVPSSPSQEPPTKREYDQCRIQVRLPDGTS  
LTQTFRAREQLAAVRLYVELHRGEELGGGQDPVQLLSGFPRRAFSEADMERPLQELGMAARLETRTRNWGSREAC  
LGKGGMQREGAL

3513/6881  
**FIGURE 3240**

GGCACGAGGCCTAAGAGTTCTCTGCTGTACGACTGCACTCCCGCACCCCTCCCCTAAATCCCCCTCTTCGGCCT  
GTTTACCTTTTAACTTGGCTTCGTTGCACGTTTGTGTGTGTGTGTTGCTCTTCGCAGCCTCTTGAGCGTCTTTT  
GTACTTAAATCTTACACTGTGGACGCTCTCTCGCGCCCGCCATCCCCGACCCCTCTGATCTCCGATCCTTGACG  
ATGTCTAGCCTGCATTGATTGGCCCTTTTCCCTGGGTATGGCAGATCTATTGCTTGATGATCCTCTCCCCCAAG  
AATTCTAACACAGGAGCTGTCTGAGGCTCTGGATGACTTTATTCTTCAAATGGCTTTACCTCCCAGTAGCTCC  
AGGGACCCTCCATTTTCCATATCCAGGAAAATGTGATGCGCCACAGGTATCAGCGTCTGGATCGCCACTTCACGT  
TTTAGCCACAAGTGACTCAGTGGAAGATCCAGAGTCAACAGAGGCTCGTCAGGAAGATGCTACAGAAAAGGTAG  
ACCAAAAGGAGGAAGCTGGGGAAAAGAGGTGTGCGGAGACCAGATCAAAGGACCGGACAAAGAGGAGGAACAC  
CAGTGCTGCATCCCATGGCCAGGGGTGGCGTCCAGGTGGCAGAGCAGCTAGGAACGCAAGGCCTGAACCTGGGG  
CCAGACACCCTGCTCTCCCGGCCATGGTCAACGACCCCTCAGTACCTGCCTTACTGTGGGCCAGGAGGTGGGCC  
AAGTCTTGGCAGGCCGTGCCCGCAGGCTGCTGCTGCAGTTTGGGGTGTCTTCTGCACCATCCTCCTTTTGTCT  
GGGTGTCTGTCTTCTCTATGGCTCCTTCTACTATTCTATATGCCGACAGTCAGCCACCTCAGCCCTGTGCATT  
TCTACTACAGGACCGACTGTGATTCCCTCCACCACCTCACCTGCTCCTTCCCTGTTGCCAATGTCTCGCTGACTA  
AGGGTGGACGTGATCGGGTGTGATGTATGGACAGCCGTATCGTGTTACCTTAGAGCTTGAGCTGCCAGAGTCCC  
CTGTGAATCAAGATTTGGGCATGTTCTTGGTCACCATTTCCTGCTACACCAGAGGTGGCCGAATCATCTCCACTT  
CTTCGCGTTTCGGTGATGCTGCATTACCGCTCAGACCTGCTCCAGATGCTGGACACACTGGTCTTCTTAGCCTCC  
TGCTATTTGGCTTTGCAGAGCAGAAGCAGCTGCTGGAGGTGCAACTCTACGCAGACTATAGAGAGAACTCGTACG  
TGCCGACCACTGGAGCGATCATTGAGATCCACAGCAAGCGCATCCAGCTGTATGGAGCCTACCTCCGCAATCCACG  
CGCACTTCACTGGGCTCAGATACCTGCTATACAACCTCCCGATGACCTGCGCCTTCATAGGTGTTGCCAGCAACT  
TCACCTTCCTCAGCGTCATCGTGCTCTTCAGCTACATGCAGTGGGTGTGGGGGGGCATCTGGCCCCGACACCGCT  
TCTCTTTGCAGGTAAACATCCGAAAAGAGACAATTCGCGGAAGGAAGTCCAACGAAGGATCTCTGCTCATCAGC  
CAGGTGCAGGGCCTGAAGGCCAGGAGGAGTCAACTCCGCAATCAGATGTTACAGAGGATGGTGAGAGCCCTGAAG  
ATCCCTCAGGGACAGAGGGTCAGCTGTCCGAGGAGGAGAAACCAGATCAGCAGCCCTGAGCGGAGAAGAGGAGC  
TAGAGCCTGAGGCCAGTGATGGTTCAGGCTCCTGGGAAGATGCAGCTTTGCTGACGGAGGCCAACCTGCCTGCTC  
CTGCTCCTGCTTCTGCTTCTGCCCCGTGCTTAGAGACTCTGGGCAGCTCTGAACCTGCTGGGGGTGCTCTCCGAC  
AGCGCCCCACCTGCTCTAGTTCTTGAAGAAAAGGGGCAGACTCCTCACATTCCAGCACTTTCCACCTGACTCCT  
CTCCCCTCGTTTTCTTCAATAAACTATTTTGTGTCAGCTTCAAAAAAAAAAAAAAAAAAAAAA

3514/6881  
**FIGURE 3241**

MSTEKVDQKEEAGEKEVCGDQIKGPDKEEPPAAASHGQGWRPGGRAARNARPEPGARHPALPAMVNDPPVPALL  
WAQEVGQVLAGRARRLLLQFGVLFCTILLLLWVSVFLYGSFYYSYMP TVSHLSPVHFYYRTDCDSSTTSLCSFPV  
ANVSLTKGGRDRVLMYGQPYRVLELELPESPVNQDLGMFLVTISCYTRGGRIISTSSRSVMLHYRSDLLQMLDT  
LVFSSLLLFQFAEQKQLLEVELYADYRENSYVPTTGAIIEIHSKRIQLYGAYLRIHAHFTGLRYLLYNFPMTCF  
IGVASNFTFLSVIVLFSYMQVWGGIWPRHRFSLQVNIRKRDNSRKEVQRRISAHQPGAGPEGQEESTPQSDVTE  
DGESPEDPSGTEGQLSEEEKPDQQPLSGEEELEPEASDGSGSWEDAALLTEANLPAPAPASASAPVLETLSSEP  
AGGALRQRPTCSSS

3515/6881  
**FIGURE 3242**

GGCACGAGGGAGCGCTTGGGAGTTAGGTTGTTTGCCGGCGTAGCGGCCAGCGCCTGAGCCCGCCGTTGATCTTCG  
CTGTGGCATGGCGGACGAGGGGAAGTCGTACAGCGAACACGATGATGAACGCGTTAATTTCCCTCAAAGAAAGAA  
GAAAGGCCGGGTCCCTTCCGGTGGAATATGGTGAAGGAAACCGTAGGTCTGGAAGAGGCGGTTCTGGTATTCTG  
GTCTTCCCGCCTTGAGGAAGATGATGGAGATGTGGCAATGAGTGATGCCCAGGATGGTCCCGAGTACGATACAA  
CCCCTATACCACCCGACCTAACCGTCGGGGTGATACTTGGCATGATCGAGATCGCATTGTTACTGTGCGGAG  
AGACAGAGCTCCTCCAGAGAGAGGAGGGGCTGGCACCAGCCAGGATGGGACCTCAAAGAAGTGGTTCAAGATTAC  
AATTCCTTATGGCAGAAAGTATGACAAGGCATGGCTCCTGAGCATGATTGAGAGCAAGTGCAGTGTGCCCTTCAC  
CCCTATTGAGTTTCACTATGAGAATACACGGGCCCAGTTCTTCGTTGAAGACGCCAGTACTGCCTCTGCATTGAA  
GGCTGTCAACTATAAGATTTTGGATCGGGAGAACCGAAGGATATCTATCATCATCAACTCTTCTGCTCCACCCCA  
CACTATACTGAATGAAGTGAAGCCAGAACAAGTAGAACAGCTAAAGCTGATCATGAGCAAACGATACGATGGCTC  
CCAACAAGCCCTTGACCTCAAAGGCCTCCGTTGAGACCCAGATTTGGTGGCCCAGAACATTGACGTTGTCTCGAA  
TCGCAGAAGCTGTATGGCAGCTACCCTGAGGATCATTGAAGAGAACATCCCTGAGCTATTGTCTTGAAGTGGAG  
CAACAACAGGCTGTACAGGCTGGATGACATGTCTAGCATTGTTGAGAAGGCACCCAACCTGAAGATCCTAAACCT  
TTCTGGAAATGAATTGAAGTCTGAGCGGGAATTGGACAAGATAAAGGGGCTGAAGCTAGAAGAGCTCTGGCTCGA  
TGGAAGTCCCTGTGTGACACCTTCCGAGACCAGTCCACCTACATCAGCGCCATTGCGGAACGATTTCCCAAGTT  
ACTACGCCTGGATGGCCATGAGCTACCCCCACCAATTGCCTTTGATGTTGAAGCCCCACGACGTTACCGCCCTG  
CAAGGGAAGCTATTTTGGAACAGAAAAGTGAAGAGTCTGGTCTTGCACTTCCTGCAACAGTACTATGCAATTTA  
CGACTCTGGAGACCGACAAGGGCTCCTGGATGCCTACCATGATGGGGCCTGCTGTCCCTGAGCATTCCTTTTCAT  
TCCTCAGAACCCTGCCCGAAGCAGCTTAGCCGAGTATTTCAAGGATAGCAGAAATGTGAAGAAGCTTAAAGACCC  
TACCTTGCGGTTCCGGCTGCTGAAGCACACGCGTCTCAACGTTGTTGCCTTCCTCAATGAGTTGCCCAAAACCCA  
GCACGACGTCAATTCTTCTGTTAGACATAAGCGCCAGACAAGCACATTGCTGTGTTTTTCTGTCAATGGAGT  
CTTCAAGGAAGTGGACGGAAAGTCCCGGGATTCTTTGCGAGCCTTCACCCGGACATTGCTGTTCTCTGCTAG  
CAATTCAGGGCTATGTATTGTAAATGATGAGCTATTTGTGCGGAATGCCAGTTCTGAAGAGATCCAAAGAGCCTT  
CGCTATGCCTGCACCCACGCCTTCCTCCAGCCCCGGTGCCACCTCTCTCCAGAGCAGCAGGAAATGTTGCAAGC  
ATTCTCTACCCAGTCTGGCATGAACCTCGAGTGGTCCCAGAAGTGCCCTTCAGGACAACAAGTGGGACTACACCAG  
ATCTGCCCAGGCCTTCACTCATCTCAAGGCCAAGGGCGAGATCCCAGAAGTGGCATTGATGAAGTATCGTAGTC  
ATGCCTCAGAAGCAGTCCCCCTGTAAATAGTCTTGGATATTACCGTCTGGTTGTGCTGTCTCTCTCTCTCTG  
TCTGGCCCGAGCCGCCCGTACTGTGACCGAGGGAGGGAGGGCTGCCTGATCCCTCTCTCTGCTGCTTCTG  
GAAGACTTCAGAAGATTGAGCCTCACTGGTGCCAGGAAGCCAAAGCTTACTTTGTAGAACTGACACTAAACTACC  
CGAAGGACTTAGGTGCTTTGTGTACTTAACCCAGGACCTCTTACTTTTTAATATAAAGAGTGATGTTGTAAAA  
AAAAAAAAAAAAA



3516/6881  
**FIGURE 3243**

MADEGKSYSEHDDERVNFPQKKKGRGPFWRKYEGNRRSGRGGSGIRSSRLEEDDGDVAMSDAQDGPRVRYNPY  
TTRPNRRGDTWHDRDRIHVTVRRDRAPPERGGAGTSQDGTSKNWFKITIPYGRKYDKAWLLSMIQSKCSVPFTPI  
EFHYENTRAQFFVEDASTASALKAVNYKILDRENRRISIIINSSAPPHTILNELKPEQVEQLKLIMSKRYDGSQQ  
ALDLKGLRSDPDLVAQNIDVVLNRRSCMAATLRIIEENIPELLSLNLSNNRLYLDDMSSIVQKAPNLKILNLG  
NELKSERELDKIKGLKLEELWLDGNSLCDTFRDQSTYISAIRERFPKLLRLDGHELPPPIAFDVEAPTTLPPCKG  
SYFGTENLKSLVLHFLQYYAIYDSGDRQGLLDAYHDGACCSLSIPFIPQNPARSSLAEYFKDSRNVKKLKDPTL  
RFRLKHLRLNVVAFNLNLPKTQHDVNSFVVDISAQTSTLLCFVNGVFKEVDGKSRDSLRAFTRTFIAVPASNS  
GLCIVNDEL FVRNASSEEIQRAFAMPAPT PSSSPVPTLSPEQQEMLQAFSTQSGMNLEWSQKCLQDNNWDYTRSA  
QAFTHLKAKGEIPEVAFMK

3517/6881  
**FIGURE 3244**

GAACTTGCGGCGCGAAAAAGGCGCGCATGCGTCTACGGGAGCGTGCTGGCTCACCGACCGCATTGCGGCTTGGT  
TTTCTACCCAGTGCATGTGGCAGGAGCGGTGAGATCACTGCCTCACGGCGATCCTGGACTGACGGTCACGACTG  
CCTACCCTCTAACCTGTTCTGAGCTGCCCCCTTGCCACACACCCCAAACCTGTGTGCAGGATCCGCCTCCATGG  
AGCTACAGCCTCTGAAGCCTCGATCGCCGTCGTGTCGATTCCGCGCCAGTTGCCTGGCTCACATTCGGAGGCTG  
GTGTCCAGGTCTCAGCGCGGGGACGACTCAGAGTTGGGGTCTCACTGTGTTGCCAGACTGGTCTCGAACTCT  
TGGCCTCAGGTGATCCTCTTCCCTCAGCTTCCAGAAATGCCGAGATGATAGAGACGGGGTCTGACTGTGTTACCC  
AGGCTGGTCTTCAACTCTTGGCCTCAAGTGATCCTCTGCCTTAGCTTCCAAGAATGCTGAGGTTACAGTAGAAA  
CGGGGTTTACCATGTTAGCCAGGCTGATATTGAATTCCTGACCTCAATTGATCCGACTGCCTCGGCCTCCGGAA  
GTGCTGGGATTACAGGCACCATGAGCCAGGACACCGAGGTGGATATGAAGGAGGTGGAGCTGAATGAGTTAGAGC  
CCGAGAAGCAGCCGATGAACGCGCGCTCTGGGGCGGCCATGTCCCTGGCGGGAGCCGAGAAGAATGGTCTGGTGA  
AGATCAAGGTGGCGGAAGACGAGGCGGAGGCGGCAGCCGCGGCTAAGTTACAGGGCCTGTCCAAGGAGGAGCTGC  
TGAAGGTGGCAGGCAGCCCCGGCTGGGTACGCACCCGCTGGGCACTGTGCTGCTCTTCTGGCTCGGCTGGCTCG  
GCATGCTTGCTGGTGCCGTGGTCATAATCGTGCGAGCGCGGCTTGTGCGGAGCTACCGGCGCAGAAGTGGTGGC  
ACACGGGCGCCCTCTACCGCATCGGCGACCTTCAGGCCTTCCAGGGCCACGGCGCGGGCAACCTGGCGGGTCTGA  
AGGGGCGTCTCGATTACCTGAGCTCTCTGAAGGTGAAGGGCCTTGTGCTGGGTCCAATTCAAGAACCAGAAGG  
ATGATGTGCTCAGACTGACTTGCTGCAGATCGACCCCAATTTTGGCTCCAAGGAAGATTTTGACAGTCTCTTGC  
AATCGGCTAAAAAAGAGCATCCGTGTCAATTCTGGACCTTACTCCCAACTACCGGGGTGAGAAGTCTGTTCT  
CCACTCAGGTTGACACTGTGGCCACCAAGGTGAAGGATGCTCTGGAGTTTGGCTGCAAGCTGGCGTGGATGGGT  
TCCAGGTTCCGGACATAGAGAATCTGAAGGATGCATCCTCATTCTTGGCTGAGTGGCAAAATATACCAAGGGCT  
TCAGTGAAGACAGGCTCTTGATTGCGGGGACTAACTCCTCCGACCTTCAGCAGATCCTGAGCCTACTCGAATCCA  
ACAAAGACTTGCTGTTGACTAGCTCATACCTGTCTGATTCTGGTTCTACTGGGGAGCATACAAAATCCTTAGTCA  
CACAGTATTTGAATGCCACTGGCAATCGCTGGTGAGCTGGAGTTTGTCTCAGGCAAGGCTCCTGACTTCCTTCT  
TGCCGGCTCAACTTCTCCGACTCTACCAGCTGATGCTCTTACCCTGCCAGGGACCCCTGTTTTAGCTACGGG  
ATGAGATTGGCCTGGATGCAGCTGCCCTTCCCTGGACAGCCTATGGAGGCTCCAGTCATGCTGTGGGATGAGTCCA  
GCTTCCCTGACATCCCAGGGGCTGTAAGTGCCAACATGACTGTGAAGGGCCAGAGTGAAGACCCCTGGCTCCCTCC  
TTTCTTGTTCGGGCGGCTGAGTGACAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGGACTTCCACGCGTTCT  
CCGCTGGGCTGGACTCTTCTCTATATCCGCCACTGGGACCAGAATGAGCGTTTTCTGGTAGTGCTTAACCTTG  
GGGATGTGGGCTCTCGGCTGGACTGCAGGCCTCCGACCTGCCAGCGCCAGCCTGCCAGCCAAGGCTGACC  
TCCTGCTCAGACCCAGCCAGCCGTGAGGAGGGCTCCCTCTTGAGCTGGAACGCCTGAAACTGGAGCCTCAGC  
AAGGGCTGCTGCTCCGCTTCCCTACGCGGCCTGACTTCAGCCTGACATGGACCCACTACCCTTCTCCTTTCCTT  
CCCAGGCCCTTGGCTTCTGATTTTTCTCTTTTTTAAAAACAAACAAACAACTGTTGCAGATTATGAGTGAACC  
CCCAAATAGGGTGTCTTCTGCCTTCAAATAAAGTCACCCCTGCATGGTG

3518/6881  
**FIGURE 3245**

GACAGCGGCTTCCTTGATCCTTGCCACCCGCGACTGAACACCGACAGCAGCAGCCTCACCATGAAGTTGCTGATG  
GTCCTCATGCTGGCGGCCCTCTCCCAGCACTGCTACGCAGGCTCTGGCTGCCCCTTATTGGAGAATGIGATTTCC  
AAGACAATCAATCCACAAGTGTCTAAGACTGAATACAAAGAACTTCTTCAAGAGTTCATAGACGACAATGCCACT  
ACAAATGCCATAGATGAATTGAAGGAATGTTTTCTTAACCAACGGATGAAACTCTGAGCAATGTTGAGGTGTTT  
ATGCAATTAATATATGACAGCAGTCTTTGTGATTATTTTTAACTTTCTGCAAGACCTTTGGCTCACAGAACTGCA  
GGGTATGGTGAGAAACCAACTACGGATTGCTGCAAACACACCTTCTTTCTTATGTCTTTTTACTACAAACTA  
CAAGACAATTGTTGAAACCTGCTATACATGTTTATTTTAATAAATTGATGGCA

3519/6881  
**FIGURE 3246**

MKLLMVLMLAALSQHCYAGSGCPLEENVISKINPQVSKTEYKELLQEFIDDNATTNAIDELKECFINQTDETLS  
NVEVFMQLIYDSSLCDLF

3520/6881  
**FIGURE 3247**

CGCCGCCGCTCCAGCGCCGCGCAGCCACCGCCGCCGCCGCCCTCTCCTTAGTCGCCGCCATGACGACCGCGTC  
CACCTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTA  
CGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATA  
CTTTCTTACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCG  
AATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATT  
ACATTTGGAAAAAATGTGAATCAGTCACTACTGGAACTGCACAACTGGCCACTGACATGAAAGCCATCAAAGA  
ATTGGGTGACCACGTGACCAACTTGCGCAAGATGGGAGCGCCGAATCTGGCTTGGCGGAATATCTCTTTGACAA  
GCACACCTTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCT  
GGTCACCAAGGCAGTGCATGCATGTTGGGG

3521/6881  
**FIGURE 3248**

CTGGTGGGGGAAGAAGGCTCCTGCTACCTCCCTTCCCGGCACCCTCCAGAGGGACCCTCAGTCTGGCCTTGCAA  
GCATGGACTCTTCTGAGGAGCACGCTGGGTGCCCCGCCCCGAGGGACATGTCCCGTGTTCCTGGCCATGAGTGCA  
GGACTGTCCGCTACGCCCCATCAGGCCTGTGCCCTGTACTTGAGGGGAACCTGAGAGAAGAGCCCTGGGGCACAG  
ACAGCCCACCCAGCCAGACCAGGGCCTCCCGCGCCCTTGACGCTGTCCCGGTCCCTGGAAGAGCACGGACC  
CCTGCCAAGGCCACAGGGAGTCCCCAGGAGCCCTGGTGGAGACCTCTGCAGGGGAGGAGGCCGAGGCCAGGAGG  
GCCCCGAGCCGCCAGCTGGACGTGTTGCGCCTGCGCAGCTCTTCCATGGAGATCCGAGAGAAGGGCTCCGAGT  
TCCTGAAGGAGGAGCTGCACAGAGCGCAGAAGGAGCTGAAGCTAAAGGACGAGGAATGTGAGCGGCTGTCCAAGG  
TGCGGGAGCAGCTAGAACAGGAGCTGGAAGAGCTGACGGCCAGCCTGTTTGAGGAAGCTCACAAGATGGTTGCGAG  
AAGCCAACATGAAGCAGGCGGCATCAGAAAAGCAGCTGAAGGAGGCTCGGGGCAAGATCGACATGTGTCAGGCAG  
AGGTGACAGCCTTGAAGACGCTGGTCATCAGTCCACACCAGCCTTCCCAACCGCGAGCTTACCCCCAGCTGC  
TGAGCCCCACCAAGGCCGGGCCCCGAAAGGGCCACTCTCGCCACAAGAGCACCAGCAGCACCCTTGTCCCCGCCG  
TGTGTCCCGCTGCGGGACACACCCTCACCCAGACAGAGAGGGCAAGGAGGTGGACACAATCCTGTTTGCAAGT  
TCCAGGCCTGGAGGGAATCCCCACCCTGGACAAGACCTGCCCCCTTCTGGAAAGGGTGTACCGGGAGGACGTGG  
GCCCCGTGCTGGACTTACGATGCAGGAGCTCTCGGTGCTGGTACGGGCCCGCTGGAGGACAACAGCTACCA  
TTGAGCCGGTGGCTTCGCAGACGCTGCCCACAGTGAAGGTGGCCGAGGTTGACTGTAGCAGCACCACACATGTG  
CCCTGAGCGGGCTGACCCGCACCTGCCGCCACCGAATCCGGCTCGGGGACTCCAAAAGCCATTACTACATCTCGC  
CATCTTCCCGGGCCAGGATCACCGCAGTGTGCAACTTCTTACCTACATCCGCTACATCCAGCAAGGCCTGGTGC  
GGCAGGACGCAGAGCCCATGTTCTGGGAGATCATGAGGTTGCGGAAGGAGATGTCACTGGCCAAGCTCGGCTTCT  
TCCCCAGGAGGCTTAGGGCGCGGCCAGGCCTGAAGGGGAGCTCTGAGACAGAGCAAACACCCACCCAGAAC  
AGCCGACACACAGGGAGACGGGGCCCTGGAGCCAGCCCTGAGCCAGAGGCAGAATGGATGGACAGACAGGCCATG  
GAGGCAGCACTGAGCCAGCACCACACGTCCATCCTGGGACAGACGGGCCTGGACTTACGGCAAGACCCCCCTCT  
CTTCCCCTACTGGGTTCTGCCACCACCAGGAGGATTTCAAGAAAGCACCAAAGACCAGGGAGCTCGGATCCATACT  
CGGGGGGCTCTAGCCCTTGGGAGGGGACACCTGAGGCAGCCAGCGCCCCCTCCCCAGTCCCCAGAAGTGCCTGCA  
GGTGCCTTGTGCTGGCTTGTCTTCAAGAAAGGACTGTTCTGGGTGGCTGGATCTCCAGGGTACCCTCCACCCCA  
GCTGCCAAGCCCTGGGCCAGCAGCACCCTTGTGGCCATCCTGTGCCTTGTTCGGGTGGCTCCCTATTGGAC  
TACTAGGAGGGGCTGGCAGGGCCTCCATAGCACAGAATTGCCCCAAAGCCTTGTTAAGATGAGTCAAGACCCCTC  
CCCCGCTTCTCCTTCTTCCCCCTTCTCCCTCCCCCTTCAAAAGGCCTCCCTTGTACCTTCCCTCCCAC  
CCGCTCTAGCCCTGTGCTCCTGGAGGCCCTGCTCCCAAACCGCTGGAAGGACTGGGGCACTTCTGCCACAGT  
AGAACACAGACAGGGCTTCAAGATCGCCACGCCTGTTTTAGCTGTGGGTGGCCATGCAGACACGCGCCCTGGCA  
TGTGGGGCTGGGTGGGCAGGCAGGACCTGGGCCCTCCACCCATCAGAGCCCACTCAGGACCAGCGTTTCGGAGC  
TCCACCTGGACGCATCCCTCACCACGTCCGGATTCCTTCTTGGATGGAATGTAACGCGATCTCTATTTAATA  
AAGGCAGGCTTTGTTGGT

3522/6881  
**FIGURE 3249**

AGGGGGCGCGGTGGGAGGAGTAGGAGAAGACAAAAGCCGAAAGCGAAGAGGGCCCCGGGCTGCACACACCGGCTGG  
GAGGCAGCCGTCTGTGCAGCGAGCAGCCGGCGCGGGGAGGCCGAGTGCACGGGGCGTCACAGTCGGCAGGCAGC  
**ATG**GGGAAGGGAGGGGAACCAGGGCGAGGGGGCCGCCGAGCGCGAGGTGTCGGTGCCACCTTCAGCTGGGAGGAG  
ATTGAGAACATAACCTGCGCACCGACAGGTGGCTGGTCATTGACCGCAAGGTTTACAACATACCAAATGGTCC  
ATCCAGCACCCGGGGGGCCAGCGGGTCATCGGGCACTACGCTGGAGAAGATGCAACGGATGCCTTCGCGCCTTC  
CACCTTGACCTGGAATTCGTGGGCAAGTTCTTGAACCCCTGCTGATTGGTGAAGTGGCCCCGGAGGAGCCAGC  
CAGGACCACGGCAAGAAGTCAAAGATCACTGAGGACTTCGGGGCCCTGAGGAAGACGGCTGAGGACATGAACCTG  
TTCAAGACCAACCACGTGTTCTTCTCCTCCTCGGCCACATCATCGCCCTGGAGAGCATTGCATGGTTCACT  
GTCTTTTACTTTGGCAATGGCTGGATTCTACCTCATCACGGCCTTTGTCTTGCTACCTCTCAGGCCCCAAGCT  
GGATGGCTGCAACATGATTATGGCCACCTGTCTGTCTACAGAAAACCAAGTGAACACCTTGTCCACAAATTC  
GTCAATGGCCACTTAAAGGGTGCCTCTGCCAAGTGGTGAATCATCGCCACTTCCAGCACCACGCCAAGCCTAAC  
ATCTTCCACAAGGATCCCGATGTGAACATGCTGCACGTGTTTGTCTGGGCGAATGGCAGCCCATCGAGTACGGC  
AAGAAGAAGCTGAAATACCTGCCCTACAATCACCAGCACGAATACTTCTTCTGATTGGGGCCCGCTGCTCATC  
CCCATGTATTTCCAGTACCAGATCATCATGACCATGATCGTCCATAAGAAGTGGGTGGACCTGGCCTGGGCCGTC  
AGCTACTACATCCGTTCTTCATCACCTACATCCCTTTCTACGGCATCCTGGGAGCCCTCCTTTTCTCAACTTC  
ATCAGGTTCTGGAGAGCCACTGGTTTGTGTGGGTACACAGATGAATCACATCGTCATGGAGATTGACCAGGAG  
GCCTACCGTGACTGGTTTCAGTAGCCAGCTGACAGCCACCTGCAACGTGGAGCAGTCCTTCTTCAACGACTGGTTT  
AGTGGACACCTTAACCTCCAGATTGAGCACCCTCTTCCCCACCATGCCCGGCAACCTTACACAAGATCGCC  
CCGCTGGTGAAGTCTCTATGTGCAAGCATGGCATTGAATACCAGGAGAAGCCGCTACTGAGGGCCCTGCTGGAC  
ATCATCAGGTCCCTGAAGAAGTCTGGGAAGCTGTGGCTGGACGCCTACCTTCACAAATGAAGCCACAGCCCCCGG  
GACACCGTGGGGAAGGGGTGCAGGTGGGGTGTAGGCCAGAGGAATGATGGGCTTTTGTTCGAGGGGTGTCCGAG  
AGGCTGGTGTATGCACTGCTACGGACCCCATGTTGGATCTTTCTCCCTTTCTCCTCTCCTTTTTCTCTTACAT  
CTCCCCCATAGCACCTTGCCTCATGGGACCTGCCCTCCCTCAGCCGTGAGCCATCAGCCATGGCCCTCCAGTG  
CCTCCTAGCCCTTCTTCCAAGGAGCAGAGAGGTGGCCACCGGGGTGGCTCTGTCTACCTCCACTCTCTGCCC  
CTAAAGATGGGAGGAGACCAGCGGTCCATGGGTCTGGCCTGTGAGTCTCCCCTTGACGCTGGTCACTAGGCATC  
ACCCCGCTTTGGTTCTTCAGATGCTCTTGGGGTTCATAGGGGCAGGTCTAGTCGGGCAGGGCCCCTGACCTC  
CCGGCTGGCTTCACTCTCCCTGACGGCTGCCATTGGTCCACCTTTCATAGAGAGGCCTGCTTTGTTACAAAGC  
TCGGGTCTCCCTCCTGCAGCTCGGTTAAGTACCCGAGGCCTCTCTAAGATGTCCAGGGCCCCAGGCCCGGGC  
ACAGCCAGCCCAAACCTTGGGCCCTGGAAGAGTCTCCACCCCATCACTAGAGTGCTCTGACCTGGGCTTTCAC  
GGGCCCCATTCCACCGCCTCCCCAAGTGGAGCCTGTGACCTTGGGACCAAAGGGGGAGTCCCTCGTCTCTGTGA  
CTCAGCAGAGGCAGTGGCCACGTTAGGGAGGGGCCGGCTGGCCTGGAGGCTCAGCCACCTCCAGCTTTTCT  
CAGGGTGTCTGAGGTCCAAGATTCTGGAGCAATCTGACCTTCTCCAAAGGCTCTGTTATCAGCTGGGCAGTGC  
CAGCCAATCCCTGGCCATTTGGCCCCAGGGGACGTGGGCCCTGCAGGCTGCAGGAGGGCACTGGAGCTGGGAGGT  
CTCGTCCAGCCCTCCCATCTCGGGGCTGCTGTGTGGACGGCGCTGCCTCAGGCACTCTCCTGTCTGAACCTGC  
CCTTACTGTGTTTAACTGTTGCTCCAGGATGCATTCTGATAGGAGGGGGCGGCAGGGCTGGGCCTTGTGACAAT  
CTGCCCTTACCCACATGGCCTTGCCCTCGGTGGCCCTGACTGTGAGGGAGGGCCAGGGAGGCAGAGCGGGAGGGAG  
TCTCAGGAGGAGGCTGCCCTGAGGGGCTGGGGAGGGGTACCTCATGAGGACCAGGTGGAGCTGAGAAGAGGAG  
GAGGTGGGGGCTGGAGGTGCTGGTAGCTGAGGGGACGGGCAAGTGAGAGGGGAGGGAGGGAAGTCTGGGAGGAT  
CCTGAGCTGCTGTTGCAGTCTAACCCTAATCAGTTCTTAGATTGAGGGGAAGGGCAGGCACCAACAACCTCAGA  
ATGGGGGCTTTCCGGGAGGGCGCCTAGTCCCCCAGCTCTAAGCAGCCAGGAGGGACCTGCATCTAAGCATCTGG  
GTTGCCATGGCAATGGCATGCCCCCAGCTACTGTATGCCCCGACCCCCGAGAGGCAGAATGAACCCATAGGG  
AGCTGATCGTAATGTTTATCATGTTACTTCCCCACCCCTACATTTTTTGAAATAAAATAAGGAATTTTATTCTC

3523/6881

**FIGURE 3250**

MGKGGNQGEAAEREVSVPFWSWEEIQKHNLRDRWLVIDRKVYNITKWSIQHPGGQRVIGHYAGEDATDAFRAF  
HPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITEDFRALRKTAEDMNLFKTNHVFFLLLLAHIIALESIAWFT  
VFYFGNGWIPTLITAFVLATSQAQAGWLQHDYGHLSVYRKPKWNHLVHKFVIGHLKGASANWWNHRHFQHHAKPN  
IFHKDPDVNMLHVFVLGEWQPIEYGKKKLKYLFPYNHQHEYFFLIGPPLLIPMYFYQYQIIMTMIVHKNWVDLAWAV  
SYYIRFFITYIPFYGILGALLFLNFIREFLESHWFVWVTQMNHIVMEIDQEAYRDWFSSQLTATCNVEQSFFNDWF  
SGHLNFQIEHHLFPTMPRHNHKKIAPLVKSLCAKHGIEYQEKPLLRALLDIIRSLKKSGKLWLDAYLHK



3524/6881  
**FIGURE 3251A**

TCCACTCCTGGAGCCCGCGGACCCCGAGCACGCGCCTGACAGCCCCTGCTGGCCCGGCGCGCGGCGTCCGCCAGGC  
CAGCTATGGCCCCCGACCCGGTGGCCGCCGAGACCGCGGCTCAGGGACCTACCCCGCGCTACTTCACCTGGGACG  
AGGTGGCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAACATCAGCGAGTTCA  
CCCGCCGCGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACGCCGGGAGGATGCCACGGATCCCTTTGTGGCCT  
TCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAAGTCTCTCCTGATTGGAGAAGTGTCTCCAGAGCAGCCCA  
GCTTTGAGCCCAACAAGAATAAAGAGCTGACAGATGAGTTCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGC  
TCATGAAGGCCAACCATGTCTTCTTCTGCTGTACCTGTGTCACATCTTGTGCTGGATGGTGCAGCCTGGCTCA  
CCCTTTGGGTCTTTGGGACGTCCTTTTTGCCCTTCTCCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCCCAGG  
CTGGCTGGCTGCAGCATGACTTTGGGCACCTGTGCGTCTTCAGCACCTCAAAGTGAACCATCTGCTACATCATT  
TTGTGATTGGCCACCTGAAGGGGGCCCCGCCAGTTGGTGGAAACCACATGCACTTCCAGCACCATGCCAAGCCCA  
ACTGCTTCCGCAAAGACCCAGACATCAACATGCATCCCTTCTTCTTTGCCCTTGGGGAAGATCCTCTCTGTGGAGC  
TTGGGAAACAGAAGAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTTCTTAATTGGGCCCCCAGCCT  
TGCTGCCTCTCTACTTCCAGTGGTATATTTTCTATTTTGTATCCAGCGAAAGAAGTGGGTGGACTTGGCCTGGA  
TGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCTTGGGCCCTTTTCT  
TCATAGTCAGGTTTCTTGGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCCCATGCACATTGATC  
ATGACCGGAACATGGACTGGGTTCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGACT  
GGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTCCACGATGCCTCGACACAATTACCACAAAG  
TGGCTCCCTGGTGCAGTCTTGTGTGCCAAGCATGGCATAGAGTACCAGTCCAAGCCCCCTGCTGTCAGCCTTCG  
CCGACATCATCCACTCACTAAAGGAGTCAGGGCAGCTCTGGCTAGATGCCTATCTTCACCAATTAACAACAGCCAC  
CCTGCCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGAGGGACAATGCCACTAT  
AGTTTAATACTCAGAGGGGGTGGGTTTGGGGACATAAAGCCTCTGACTCAAACCTCCTCCCTTTTATCTTCTAGC  
CACAGTTCTAAGACCCAAAGTGGGGGTGGACACAGAAGTCCCTAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGT  
AAATTATTTCTTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGGTAACAGAAGAG  
GAGGGACCTACTGAACCCAGAGTCAGGAAGAGATTTAACACTAAAATTCCACTCATGCCGGGCGTGGTGGCACGC  
GCCTGTAATCCCAGCTACCCAGGAGGCTGAGGCGAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGC  
TGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAAATCCACTC  
ATATAAAAGGTGAGCTCAGCTCACTGGTCCATTTCTCAGTGGCTTCTCCATCCTCATTGTCAAACCTCAGAGGGA  
TAAGGCAGTTGAACCTGATGAGCAAGAATTATAACAGCAAGGAAACATTAATGCTTAGAATTCTGAGATCCAGCA  
CAACTCAGTCTGTGGGAGCTCAGCTCGCTGCCAGGGATAGGTATGACCTATGTCTGCCTTAGGCTGCTGGGAGA  
TGCCATTCTCCAGTTTCAGAAGCAGGCAGGGCAAAGGTCAAGACTGTGGTATTGGGGTCTTTTGGCTCTGAAGGA  
TCCTGGAACCACTGATTTTGGTTTATTCCCTCCAGGGTCTAAAGAGAACAAGAGGTGCTAGCTCTTACCAAAACA  
GATGGTAGAGAGAGTTGCTGGCTATTTAAAGCTCTTTTATCTTTTAAATTCACCTCTTCTTTTACCTCTTTAA  
CCACTCCTCAGGAACAGAACACTTCTAGGACTGGGGTCTTTTAGCTCCATAAGCAAGTGAGCAGATGGGACAAG  
TTAGTCTTTTCTCCCTAGAAACAAGGGGATGCCAGTGGTTTCCCTTTGCTTCCCAACCTAAAATTTCAAGTTT  
AATAAAATAGCAATTAGCAGAAGTGACCAATTGGGAGATAATTATCAGTCAIGAGGAAAGACACAGATTTGGGT  
CATAAAGAATGTAAGGGCTATAAGTAGAACTTTCTATAACCTAAATGATGTTATAGAATTATTTTTGAGCAGGA  
GCAGAAAGATTAAATATGATCACTTCATACTTCTAAATCAGAAATAGGAAGATTAAACCACAGAACAGTTTGTG  
ATTTCTATTGCTGTAGCTAGGTATCTTACTCTGTCCACTCTTGTTCAGTATCTAACTCTTCTGGAAACCAATA  
GGCTTTAGAAGAGATTATCCTATATTCCTATCAGTATAATACTAAAATGTAACCTTTTAAATCATCTGGTTTTAA  
AAGATAAACAGTTTAGCCCATCTCTCCAGAGAGCAAACATAGGAATATGACTCAGGAGCCTCCTAGGGCTTATCA  
TCAGCCCTCACACCCGCTTCCCCCTCCAACCCACAGCCTTTGCTTCCAGGTGGCAGGATTACTACTTTGCTCTT  
CAGCAGCATCTACTTAGGCATATTGATCATTTTAGACACTGGGAGAAGAGAACCTCAAACCTAGGAGGAAAAGAC  
AGAGCCTCCACTTAGTTTTGGGAGGGGATGGCAGACAGTCAAGGAGATGAGCGTCCTAAGGCATGTTGGGATAGG  
GTCAGATGCACCAACCATGGAGAGGTTTGTCAACACAAAGACATGGAAGGTTAGAGGTTTGTCAACAAAAAGACA  
TGGAAGGTTAGGTTTGTCAACACAAAGACATGGAAGATTAGAGGTTTGTCAACACAAAGACACAGGAAGAATGGG  
CTGCAGAAGATTAGATGTTTTCCATTGGGCACATTTTACTTAGCTGGAGAAGTGGTTTAAACAGCCTGGGT  
AGGAAAATTAGAAGCAAGCTGGATGCAGTGGCTCATGCCTGTAATCCCAACACTTTTGGGAGGTCCAGGCAGGAG  
GATCACTTGGGCCCAGGAGGTCAAGCCTGCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTGGGGTGATAGA

3525/6881  
**FIGURE 3251B**

ACAAGACCCTGTCTCAAAAAAAAAAAAAACAACAAAACCTAGAAATTGAGGAGTTGTACCTCCATTGGCTTCCT  
CACTCCAAAATAGGTGCTGATCCTTCCTATTCTATTCTTTGCCACCTTTTGGGTGTGGTGTACCAGCCTGTTT  
AGCCAAGTAGCTTTGGGCATAGGCTGCCCAATCTGAGCAAACACCAGTGAGGCTCTATTGAGCCAAGACCAAGTC  
CTCAAAGCACCTGAACCACTGTGGCCTTCTCAGCCTACAGCAGTGTTGGTCTCTTACATGGCCACAAAGGGACACA  
CAGTGACAAAAGGCTCGGAATGTTACAATGGTAAAATGAGTGATCTCAAATCCACTGACAGATATAAAATAGGCT  
TAGAGAGGAAAAGCTGCCTCTGGTCAAGTAGATCATGGCAGCATGAATTCCAACCTCACTTTTTTACAACCTCAAC  
TTCTATGTTTATCTTTGTTACTTTCACCTTTTTTACAACCTGGCCAGAGGCATTTTTTAAATCAGGCCCAATATCA  
GTATTCTTTTGTGTGTGCCAATTTGTTATCACATCCCTATGAAGTTGAAAAATAAAGTTAATTTTGACCAAAA  
AAAAAAAAAAAAAG

3526/6881  
**FIGURE 3252**

MAPDPVAAETAAGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPPGGSRVISHYAGQDATDPFVAFH  
INKGLVKKYMNSLLIGELSPEQFSFEPTKNKELTDEFRELRATVERMGLMKANHVFLLYLLHILLDDGAAWLTL  
WVFGTSFLPFLLCAVLLSAVQAQAGWLQHDGHLSTSVFSTSKWNHLLHHFVIGHLKGAPASWWNHMHFQHHAKPNC  
FRKDPDINMHFFFFALGKILSVELGKQKKKYPYNHGHKYFFLIGPPALLPLYFQWYIFYFVIQRKKWVDLAWMI  
TFYVRFFLTYPVLLGLKAFLGLFFIVRFLESNWFVWVTQMNHHPMHIDHNRNMDWVSTQLQATCNVHKSAFNDWF  
SGHLNFQIEHHLFPTMPRHNYHKVAPLVQSLCAKHGIEYQSKPLLSAFADIIHSLKESGQLWLDAYLHQ

3527/6881  
**FIGURE 3253**

AGTCCTGCGATTTCGGGTGTAGAGGGAGCAGGGGCTGCGGGGACCTGGTGTGGGTGGAGTGGGGACAAGCGGTG  
GAGAAGGGTACGCCAGGGTCGCTGAGAGACTCTGTTCTCCCTGGAGGGACTGGTTGCCATGAGAGCAGCCGTCTG  
AGGGGACGCAGCCTGCACTACGCGCCCCAAGAGGCTGTGCGTGGCGAGCAGGTCACGTGACGGGAGCGCGGGCTT  
TGGAAGGCGGCTGAACGTCAAGGCCACCCGCCGCTAAGCTGAGAAGGGAGAGCGAGCTTAGGACCGCTGCCCGGG  
GCAACCCCGAACCAAGCTTTAGCCGCCGAGGCCGCGTGTCCCAAAGGCCAGTCATCCCTCCTCTGTGTTGCC**ATG**

GGAATTCAAGGCCTGGCCAACTAATTGCTGATGTGGCCCCCAGTGCCATCCGGGAGAATGACATCAAGAGCTAC  
TTTGGCCGTAAGGTGGCCATTGATGCCTCTATGAGCATTTATCAGTTCCTGATTGCTGTTCCGCCAGGGTGGGGAT  
GTGCTGCAGAAATGAGGAGGGTGAGACCACCAGCCACCTGATGGGCATGTTCTACCGCACCATTCGCATGATGGAG  
AACGGCATCAAGCCCGTGTATGTCTTTGATGGCAAGCCGCCACAGCTCAAGTCAGGCGAGCTGGCCAAACGCAGT  
GAGCGGCGGGCTGAGGCAGAGAAGCAGCTGCAGCAGGCTCAGGCTGCTGGGGCCGAGCAGGAGGTGAAAAATTC  
ACTAAGCGGCTGGTGAAGGTCACTAAGCAGCACAAATGATGAGTGCAAACATCTGCTGAGCCTCATGGGCATCCCT  
TATCTTGATGACCCAGTGAAGGCAGAGGCCAGCTGTGCTGCCCTGGTGAAGGCTGGCAAAGTCTATGCTGCGGCT  
ACCGAGGACATGGACTGCCTCACCTTCGGCAGCCCTGTGCTAATGCGACACCTGACTGCCAGTGAAGCCAAAAAG  
CTGCCAATCCAGGAATTCCACCTGAGCCGGATTCTGCAGGAGCTGGGCCTGAACCAGGAACAGTTTGTGGATCTG  
TGCATCCTGCTAGGCAGTGACTACTGTGAGAGTATCCGGGGTATTGGGCCCAAGCGGGCTGTGGACCTCATCCAG  
AAGCACAAGAGCATCGAGGAGATCGTGCGGCGACTTGACCCCAACAAGTACCTGTGCCAGAAAATTGGCTCCAC  
AAGGAGGCTCACCAGCTCTTCTTGAACCTGAGGTGCTGGACCCAGAGTCTGTGGAGCTGAAGTGGAGCGAGCCA  
AATGAAGAAGAGCTGATCAAGTTCATGTGTGGTGAAGAGCAGTTCTCTGAGGAGCGAATCCGCAGTGGGGTCAAG  
AGGCTGAGTAAGAGCCGCCAAGGCAGCACCCAGGGCCGCTGGATGATTTCTTCAAGGTGACCGGCTCACTCTCT  
TCAGCTAAGCGCAAGGAGCCAGAACCCAAAGGGATCCACTAAGAAGAAGGCAAAGACTGGGGCAGCAGGGAAGTTT  
AAAAGGGGAAAA**TAA**ATGTGTTTCCCCATTATACCTCCTTCACCCCAAGATATTTGCCGTCTTGTACCTTAAGA  
GCTACAGCTAGAGAAACCTTCACGGGGTGGAGAGAGGATTCTAAGGCTTTTCTAGCGTGACCCTTTTAGTAGTG  
CTAGTCCCTTTTTTACTTGATCTTAATGGCAAGAAGGCCACAGAGGTACTTTTCCTTTTTTAGCTCAGGAAAAATA  
TGTCAGGCTCAAACCACTTCTCAGGCAGTTTAAATGGACACTAAGTCCATTGTTACATGAAAGTGATAGATAGCAA  
CAAGTTTTGGAGAAGAGAGAGGGAGATAAAAGGGGGAGACAAAAGATGTACAGAAATGATTTCTGGCTGGCCAA  
CTGGTGGCCAGTGGGAGGTGATGGTGGACCTAGACTGTGCTTTTCTGCTTGTTCAGCCTTGACCCACCTTGAGA  
GAGAGCCACCAGGAAGGCGCATCTTAGCAGATGGGAGGAACTGCTGAGAGAAGATGGGCAGAAAGCTGGAGCCCC  
TGGAGTTGGCTGTGCTGTGTTTGTGACTGATTACTGGCTGTGCTTGGGTGGGCAGAAACTCGAAGTTGCTATG  
TAATTTGTGTCTAGTTATTAGAGGAGTAAGATGGTGTGTTACCTGGCAATCAGCTGAGTTGAGACTTTGGAA  
TAAGACACTGGTTTTTCATGCGCTGTTTTTGTTTTAAAGTTATGAAGAAAAAAGTCAATAAAATTCTAAAAGTAAA  
AAAAAAAAAAAAAAAA

3528/6881  
**FIGURE 3254**

MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQGGDVLQNEEGETTSHLMGMFYRTIRMM  
ENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQAAGAEQEVEKFTKRLVKVTKQHNDCKHLLSLMGI  
PYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQEFHLSRILQELGLNQEQFVD  
LCILLGSDYCESIRGIGPKRAVDLIQKHKSIEEIVRRLDPNKYPVPENWLHKEAHQLFLEPEVLDPESELKWSE  
PNEEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSTQGRLLDFFKVTGSLSSAKRKEPEPKGSTKKKAKTGAAGK  
FKRGK

3529/6881  
**FIGURE 3255**

CAGGTGACCAGCGCCATGTCCAGCCAGGTGGTGGGCATTGAGCCTCTCTACATCAAGGCAGAGCCGGCCAGCCCT  
GACAGTCCAAAGGGTTCCCTCGGAGACAGAGACCGAGCCTCCTGTGGCCCTGGCCCTGGTCCAGTCCCACTCGC  
TGCTCCAGGCCACAAGGAAGAGGAGGATGGGGAGGGGGCTGGGCCTGGCGAGCAGGGCGGTGGGAAGCTGGTG  
CTCAGTCCCTGCCCAAGCGCCTCTGCCTGGTCTGTGGGGACGTGGCCTCCGGCTACCACTATGGTGTGGCATCC  
TGTGAGGCCTGCAAAGCCTTCTTCAAGAGGACCATCCAGGGGAGCATCGAGTACAGCTGTCCGGCCTCCAACGAG  
TGTGAGATCACCAAGCGGAGACGCAAGGCCTGCCAGGCCTGCCGCTTCACCAAGTGCCTGCGGGTGGGCATGCTC  
AAGGAGGGAGTGGCCTGGACCGCTCCGGGGTGGGCGGCAGAAGTACAAGCGGCGGCCGGAGGTGGACCCACTG  
CCCTTCCCGGGCCCCCTTCCCTGCTGGGCCCCCTGGCAGTCGCTGGAGGCCCCCGGAAGACAGCAGCCCCAGTGAAT  
GCACTGGTGTCTCATCTGCTGGTGGTTGAGCCTGAGAAGCTCTATGCCATGCCTGACCCGCGAGGCCCTGATGGG  
CACCTCCAGCCGTGGCTACCTCTGTGACCTCTTTGACCGAGAGATTGTGGTCACCATCAGCTGGGCCAAGAGC  
ATCCCAGGCTTCTCATCGCTGCTGCTGTGACCAGATGTCACTACTGCAGAGCGTGTGGATGGAGGTGCTGGTG  
CTGGGTGTGGCCAGCGCTCACTGCCACTGCAGGATGAGCTGGCCTTCGCTGAGGACTTAGTCCTGGATGAAGAG  
GGGGCACGGGCAGCTGGCCTGGGGGAAGTGGGGGCTGCCCTGCTGCAACTAGTGCGGCGGCTGCAGGCCCTGCGG  
CTGGAGCGAGAGGAGTATGTTCTACTAAAGGCCTTGGCCCTTGCCAATTCAGACTCTGTGCACATCGAAGATGCC  
GAGGCTGTGGAGCAGCTGCGAGAAGCTCTGCACGAGGCCCTGCTGGAGTATGAAGCCGGCCGGGCTGGCCCCGGA  
GGGGGTGCTGAGCGGCGGCGGGCGGGCAGGCTGCTGCTCACGCTACCGCTCCTCCGCCAGACAGCGGGCAAAGTG  
CTGGCCCATTTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCCATGCACAAGCTGTTCTTGGAGATGCTCGAGGCC  
ATGATGGACTGAGTGCAAGGGGTGGGACTGGTGGGGTTCTGGCAGGACCTGCCTAGCATGGGGTCAGCCCCAAG  
GGCTGGGGCGGAGCTGGGGTCTGGGCAGTGCCACAGCCTGCTGGCAGGGCCAGGCAATGCCATCAGCCCCTGGGA  
ACAGGCCCCACGCCCTCTCCTCCCCCTCCTAGGGGGTGTGAGAAGCTGGGAACGTGTGTCCAGGCTCTGGGCACA  
GTGCTGCCCCCTTGCAAGCCATAACGTGCCCCCAGAGTGTAGGGGGCCTTGCGGAAGCCATAGGGGGCTGCACGGG  
ATGCGTGGGAGGCAGAAACCTATCTCAGGGAGGGAAGGGGATGGAGGCCAGAGTCTCCAGTGGGTGATGCTTTT  
GCTGCTGCTTAATCCTACCCCCCTTTCAAAGCAGAGTGGGACTTGGAGAGCAAAGGCCATGCCCCCTTCGCTCC  
TCCTCTCATCATTTGCATTGGGCATTAGTGTCCCCCTTGAAGCAATAACTCCAAGCAGACTCCAGCCCCTGGAC  
CCCTGGGGTGGCCAGGGCTTCCCATCAGCTCCCAACGAGCCTCCTCAGGGGGTAGGAGAGCACTGCCTCTATGC  
CCTGCAGAGCAATAACACTATATTTATTTTTTGGGTTTGGCCAGGGAGGCGCAGGGACATGGGGCAAGCCAGGGCC  
CAGAGCCCTTGAAGTGTACAGAGACTCTATTTTAATGTATATTTGCTGCAAAGAGAAACCGCTTTTGGTTTTAAAC  
CTTTAATGAGAAAAAATATATAATACCGAGCTC

3530/6881  
**FIGURE 3256**

CACGGGCGGGGCGGGGCTGGGTCCACCGGGTCTGAGGGGAGACTGAGGTCCTGAGCCGACAGCCTCAGCTCC  
CTGCCAGGCCAGACCCGGCAGACAGATGAGGGCCAGGAGGCCTGGCGGGCCTGGGGGCGCTACGGTGGGAGAGG  
AAGCCAGGGGTACCTGCCTCTGCCTTCCAGGGCCACCGTTGGCCCCAGCTGTGCCTTGACTACGTAAACATCTTGT  
CCTCACAGCCCAGAGCATGTTCCAGATCCCAGAGTTTGAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAG  
GGGCTGGGCCCCAGCCCCGACGGGGACGGGGCCCTCAGGCTCCGCAAGCATCATCGCCAGGCCCCAGGCCTCCT  
GTGGGACGCCAGTCACCAGCAGGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCG  
GAGTCGCCACAGCTCCTACCCCGGGGACGGAGACGACGAAGGGATGGGGGAGGAGCCAGCCCCCTTCGGGG  
CCGCTCGCGCTCGGCGCCCCCAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGA  
GTTTGTGGACTCCTTTAAGAAGGGACTTCCTCGCCGAAGAGCGCGGGCACAGCAACGCAGATGCGGCAAAGCTC  
CAGCTGGACGCGAGTCTTCCAGTCTTGGTGGGATCGGAACCTGGGCAGGGGAAGCTCCGCCCCCTCCAGTAGAC  
TTCGCTCCACATCCCGAACTCCACCCGTTCCCACTGCCCTGGGCAGCCATCTTGAATATGGGCGGAAGTACTTC  
CCTCAGGCCTATGCAAAAAGAGGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCCGGTGC  
GTGTGAAGCCACGGAAGGCTTGGTCCCATCGGAAGTTTGGGTTTTCCGCCACAGCCGCCGGAAGTGGCTCCGT  
GGCCCCGCCCTCAGGCTCCGGGCTTTCCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGGTTTAACCGTTGCGTCA  
CCGGGACCCGAGCCCCCGCGATGCCCTGGGGGCCGTGCTCACTACCAAATGTTAATAAAGCCCGCTCTGTGCCG  
CC

3531/6881  
**FIGURE 3257**

MFQIPEFEPSEQEDSSSAERGLGPSPAGDGPSSGSKHHRQAPGLLDASHQQEQPTSSSHHGGAGAVEIRSRHSS  
YPAGTEDDEGMGEEPPFRGRSRSAAPPNLWAAQRYGRELRRMSDEFVDSFKKGLPRPKSAGTATQMRQSSSWTRV  
FQSWWDRNLGRGSSAPSQ



3532/6881  
**FIGURE 3258**

GAGCCCGGGTGCTGGAGGGAGGCGGCAGGCCCGGGTCAGGTGCCTCGAGATCGGGCTTGGGCCCAGAGCATGTT  
CCAGATCCCAGAGTTTGTAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAGGGGCCTGGGCCCCAGCCCCGC  
AGGGGACGGGCCCTCAGGCTCCGGCAAGCATCATCGCCAGGCCCCAGGCCTCCTGTGGGACGCCAGTCAACAGCA  
GGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCGGAGTCGCCACAGCTCCTACCC  
CGCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCCAGCCCCCTTTCGGGGCCGCTCGCGCTCGGCGCCCCC  
CAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGAGTTTGTGGACTCCTTTAAGAA  
GGGACTTCCTCGCCGAAGAGCGCGGGCACAGCAACGCAGATGCGGCAAAGCTCCAGCTGGACGCGAGTCTTCCA  
GTCCTGGTGGGATCGGAACCTGGGCAGGGGAAGCTCCGCCCCCTCCAGTGACCTTCGCTCCACATCCCGAAACT  
CCACCCGTTCCCACTGCCCTGGGCAGCCATCTGAATATGGGCGGAAGTACTTCCCTCAGGCCTATGCAAAAAGA  
GGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCCGGTGCGTGTGAAGCCACGGAAGGCTT  
GGTCCCATCGGAAGTTTTGGGTTTTCCGCCACAGCCGCCGGAAGTGGCTCCGTGGCCCCGCCCTCAGGCTCCGG  
GCTTTCCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGGTTTAAACCGTTGCGTCACCGGGACCCGAGCCCCCGCGA  
TGCCCTGGGGGCCGTGCTCACTACCAAATGTTAATAAAGCCCGCGTCTGTGCCGCC

3533/6881  
**FIGURE 3259**

MFQIPEFEPSEQEDSSSAERGLGFPSPAGDGPSGSGKHHRQAPGLLDASHQQEQPTSSSHHGGAGAVEIRSRHSS  
YPAGTEDDEGMGEEPPFGRGRSAPPNLWAAQRYGRELRMSDEFVDSFKKGLPRPKSAGTATQMRQSSSWTRV  
FQSWWDRNLGRGSSAPSQ

3534/6881  
**FIGURE 3260**

GGCGAGGAAGGGGCGGGAGCCGGGTCCCGGTAGCTTCTAGTAGGTTCCAGAAGGCGGCGGTGCGGTTGGGAAC  
GCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCAATGAGCTGAAGGAG  
AAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAGCTATTAAGCTGGAT  
CCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAG  
GATGGCTGCAAGACTGTCGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAGCAGCTCTAGAGTTC  
TTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATAACCCCTCAACTGAAA  
GAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCCCTTCAACATGCCTAATCTGTAT  
CAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTA  
CGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCAGCGTCCTCCTTGGG  
GTGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCCAAAAAGGAGACC  
AAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAGAGCTGGGGAACGAT  
GCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCCACTAACATG  
ACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAGCTTTGTGAGAAG  
GCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTCGAATTGGCAACTCC  
TACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGCACCGAACCCAGAT  
GTGCTCAAGAAATGCCAGCAGG

3535/6881

## FIGURE 3261

GGCACGAGGGCAGTCGGCCCTGCCTCCCGGACCACCCTGCGGGGCGCACCA<sup>6</sup>CCGATCTGGGGTGC<sup>7</sup>GGGGCTCGG  
CCTCCCTGCGCTCCTGGCTGACGGTGTGACCTTGGGACCGAGACGTGCAGCTGTCCAAGGCTCTGTCCTATGCCC  
TGCGCCATGGGGCCTTGAAGCTGGGGCTTCCCATGGGAGCTGATGGCTTCGTGCCCCTGGGCACCCTCCTGCAGT  
TGCCCCAGTTCGCGGGCTTCTCTGCTGAAGATGTGCAGCGCGTGGTGGACACCAATAGGAAGCAGCGGTTGCCC  
TGCAGCTGGGCGATCCCAGCACTGGCCTTCTCATCCGGGCCAACCAGGGCCATTCCCTGCAGGTACCTAAGTTGG  
AGCTGATGCCCTGGAGACACCGCAGGCCCTGCCCCGATGCTAGTCCATGGTACATTCTGGAAGCACTGGCCAT  
CCATCCTACTCAAAGGCCCTGTCCTGCCAGGGAAGGACGCACATTACCTGGCCCCAGGACTGCCTGGAGACCCG  
GTATCATCAGTGGCATGCGGTCCCATTTGTGAAATAGCTGTGTTTCATCGATGGACCCCTGGCTCTGGCAGATGGAA  
TACCCTTCTTCCGCTCTGCCAATGGGGTGATTCTGACTCCAGGGAATACTGATGGCTTCCTCCTTCCCAAGTACT  
TCAAGGAGGCCCTGCAGCTACGCCCTACCCGAAAGCCCCTTTCCTTGGCTGGTGATGAAGAGACAGAGTGTGAGA  
GTAGCCCCAAGCACAGCTCCAGAGAAAGGAGGAGGATCCAACATAAAATATTAATTTATAAAAAAGAAATTTTA  
AAAAGTAACAAGAAAGAACTCGTTTGAAACCATGTTTCATCATCCTGTAAAAAAAAAAAAAAAAAAAAA

3536/6881 - ...  
**FIGURE 3262**

MGADGFVPLGTLLQLPQFRGFS AEDVQRVVD TNRKQRFALQLGDPSTGLLIRANQGHSLQVPKLELMPLETPQAL  
PPMLVHGTFWKHWPSILLKGLSCQGRTHIHLAPGLPGDPGIISGMRSHCEIAVFIDGPLALADGIPFFRSANGVI  
LTPGNTDGFLLPKYFKEALQLRPTRKPLSLAGDEETECQSSPKHSSRERRRIQQ

3537/6881  
**FIGURE 3263**

AGACAGACCCCGTGC GGCTGACACAGCTGTATGAGCAGGCCCGGTGGGACCTGCTGCTGGAGGAGATTGACTGCA  
CCGAGGAGGAGATGATGGTGTGTTGCCGCCCTGCAGTACCACATCAACAAGCTGTCCAGAGCGGGGAGGTGGGGG  
AGCCGGCTGGCACAGACCCAGGGCTGGACGACCTGGATGTGGCCCTGAGCAACCTGGAGGTGAAGCTGGAGGGGT  
CGGCGCCACAGATGTGCTGGACAGCCTCACCACCATCCCAGAGCTCAAGGACCATCTCCGAATCTTTCGGCCCC  
GGAAGCTGACCTGAAGGGCTACCGCCAACACTGGGTGGTGTTC AAGGAGACCACACTGTCTACTACAAGAGCC  
AGGACGAGGCCCTGGGGACCCCATTCAGCAGCTCAACCTCAAGGGCTGTGAGGTGGTTCCCGATGTTAACGTCT  
CCGGCCAGAAGTTCTGCATTAAACTCCTAGTGCCCTCCCTGAGGGCATGAGTGAGATCTACCTGCGGTGCCAGG  
ATGAGCAGCAGTATGCCCCTGGATGGCTGGCTGCCGCTGGCCTCCAAAGGCCGCACCATGGCCGACAGCAGCT  
ACACCAGCGAGGTGCAGGCCATCCTGGCCTTCCTCAGCCTGCAGCGCACGGGCAGTGGGGGCCCGGGCAACCACC  
CCCACGGCCCTGATGCCTCTGCCGAGGGCCTCAACCCCTACGGCCTCGTTGCCCCCGTTTCCAGCGAAAGTTCA  
AGGCCAAGCAGCTCACCCACGGATCCTGGAAGCCACAGAAATGTGGCCAGTTGTCGCTGGCAGAGGCCAGC  
TGCGCTTCATCCAGGCCTGGCAGTCCCTGCCCGACTTCGGCATCTCCTATGTCATGGTCAGGTTCAAGGGCAGCA  
GGAAAGACGAGATCCTGGGCATCGCCAACAACCGACTGATCCGCATCGACTTGGCCGTGGGCGACGTGGTCAAGA  
CCTGGCGTTTCAGCAACATGCGCCAGTGGAATGTCAACTGGGACATCCGGCAGGTGGCCATCGAGTTTGATGAAC  
ACATCAATGTGGCCTTCAGCTGCGTGTCTGCCAGCTGCCGAATTGTACACGAGTATATCGGGGGCTACATTTTCC  
TGTCGACGCGGGAGCGGGCCCGTGGGGAGGAGCTGGATGAAGACCTCTTCCTGCAGCTACCGGGGGCCATGAGG  
CCTTCTGAGGGCTGTCTGATTGCCCTGCCCTGCTCACCACCTGTACAGCCACTCCCAAGCCCACACCCACAGG  
GGCTCACTGCCCCACACCCGCTCCAGGCAGGCACCCAGCTGGGCATTTCACCTGCTGTCACTGACTTTGTGCAGG  
CCAAGGACCTGGCAGGGCCAGACGCTGTACCATACCCAGGCCAAGGATGGGGGTGGGGTCCCTGAGCTCATGT  
GGTGCCCCCTTTCTTGTCTGAGTGGCTGAGGCTGATACCCCTGACCTATCTGCAGTCCCCCAGCACACAAGGAA  
GACCAGATGTAGCTACAGGATGATGAAACATGGTTTCAAACGAGTTCTTCTTGTTACTTTTTAAATTTCTTTT  
TTATAAATTAATATTTTATTGTTGG

3538/6881  
**FIGURE 3264**

GGCTACGGCTGACCGTTTTTTGTGGTGTACTCCGTGCCATCATGTCCTGACGCCGCTGCTGCTGCGGGGCT  
TGACAGGCTCGGCCCCGGCGGCTCCCAGTGCCGCGCGCCAAGATCCATTTCGTTGCCGCCGAGGGGAAGCTTGGGA  
TCATGGAATTGGCCGTGGGCTTACCTCCTGCTTCGTGACCTTCCTCCTGCCAGCGGGCTGGATCCTGTCACACC  
TGGAGACCTACAGGAGGCCAGAGTGAAGGGGTCCGTTCTGTCCCTCACACTGTGACCTGACCAGCCCCACCGGCC  
CATCCTGGTCATGTTACTGCATTTGTGGCCGGCCTCCCCTGGATCATGTCATTCAATTCCAGTCACCTCTTCTGC  
AATCATGACCTCTTGATGTCTCCATGGTGACCTCCTTGGGGGTCACTGACCCTGCTTGGTGGGGTCCCCCTTGTA  
ACAATAAATCTATTTAACTTT

3539/6881  
**FIGURE 3265**

MSVLTPELLLRGLTGSARRLPVPRAKIHSLPPEGKLGIMELAVGLTSCFVTFLLPAGWILSHLETYRRPE



3540/6881  
**FIGURE 3266**

AATTGGCAACCCGGAAGCGGTCTGGTAGTGCGGCGCTGTTTAAAGATGGCGCGGAGGAACCTCAGCAGCAGAAGC  
AGGAGCCGCTGGGCAGCGACTCCGAAGGTGTTAACTGTCTGGCCTATGATGAAGCCATCATGGCTCAGCAGGACC  
GAATTCAGCAAGAGATTGCTGTGCAGAACCTCTGGTGTCTCAGAGCGGCTGGAGCTCTCGGTCTATACAAGGAGT  
ATGCTGAAGATGACAACATCTATCAACAGAAGATCAAGGACCTCCACAAAAGTACTCGTACATCCGCAAGACCA  
GGCCTGACGGCAACTGTTTCTATCGGGCTTTCGGATTCTCCCACTTGGAGGCACTGCTGGATGACAGCAAGGAGT  
TGCAGCGGTTCAAGGCTGTGTCTGCCAAGAGCAAGGAAGACCTGGTGTCCCAGGGCTTCACTGAATTCACAATTG  
AGGATTTCCACAACACGTTTCATGGACCTGATTGAGCAGGTGGAGAGGCAGACCTCTGTCTGCCGACCTGCTGGCCT  
CCTTCAATGACCAGAGCACCTCCGACTACCTTGTGGTCTACCTGCGGCTGCTCACCTCGGGGTACCTGCAGCGCG  
AGAGCAAGTTCTTCGAGCACTTCATCGAGGGTGGACGGACTGTCAAGGAGTTCTGCCAGCAGGAGGTGGAGCCCA  
TGTGCAAGGAGAGCGACCACATCCACATCATTGCGCTGGCCCAGGCCCTCAGCGTGTCCATCCAGGTGGAGTACA  
TGGACCGCGGCGAGGGCGGCACCACCAATCCGCACATCTTCCCTGAGGGCTCCGAGCCCAAGGTCTACCTTCTCT  
ACCGGCTGGACACTACGATATCCTCTACAAATAGGGCTGGCTCCAGCCCGCTGCTGCCCTGTGCCCCCTCTG  
CCAGGCGCTAGACATGTACAGAGGTTTTTCTGTGGTTGTAAATGGTCCTATTTACCCCCCTTCTTCTGTACAT  
GACCCCCCCCCATGTTTTATTAAAGGGGGTGTGGTGGTGAGCCGTGTGTGCGTGTCCCTGCTCTGCTGCCCGCC  
TGGCTGCTCTGTCTGCTGCCCCCTCCCCCAGGTGGGTCCCCCTGCTTTTACCTATCTACTCTGAGCTTCCCC  
AACAGGAGCAGGTTTGAGGGGCCAGGCCTCTTGGAGGCCCTCCTGCTTCGTTGGGTTCCTGCTTCCTTCCCTTCT  
TAGCTGGCTCAGGGGCTTCTATGGGATCCTGGAAGTTTCCTAGGGACTTGCCCAGGGTCCCAGGGCCACCCACAC  
TTATCTGCTCCCTCATAGGCCCCACCTCCACGTCCCGGCTGGGCCCCAGACCCAGCTTCTGCCCCTCCACCGG  
GAGTCTGCATGGTTGGGAGTCCTGGGTGGAGGGGCCCTTTGTGAGGCTGGACCCGGCTCAGGGCAGGTGGAGGAGC  
TGGGCTCCCACAGGGTGCCCGGCAGTGCCATCCTGGTGGGGGAGGGCAGCCTTCAAACGTGTGGGGTCTACAG  
TCCTCAGGTCTAGGCAGGGCAGCCGGTTCTCCACCTCCCCATCCGCCCCAGGCCCCCTGCCTGTGCCTGCCTTGC  
ACCCCTCTGCTTGGGCCACGGTGTCTCTGCATTGCCTGCCTTTTTGCCTTCACCTCTTTTCTCCCCGCCCT  
GCACATTGGGGTCTCAGCCCCAGGCTGTGAGCTCCTTGGGGCAGGCCCTCAATAAATGTGAAGTGTGCTGC  
CGCCAAAAAAAAAAAAAAAAA

3541/6881  
**FIGURE 3267**

MAAEPPQQKQEPLGSDSEGVNCLAYDEAIMAQDRIQQEIAVQNPLVSRLELSVLYKEYAEDDNIYQQKIKDL  
HKKYSYIRKTRPDGNCIFYRAFGFSLLEALLDDSKELQRFKAVSAKSKEDLVSQGFTEFTIEDFHNTFMDLIEQVE  
RQTSVADLLASFNDQSTSDYLVVYLRLLTSGYLQRESKFFEHFIEGGRTVKEFCQQEVPEPMCKESDHIHIALAQ  
ALSVSIQVEYMDRGEGETTNPHIFPEGSEPKVYLLYRPGHYDILYK

3542/6881  
**FIGURE 3268**

AGAGTGGGCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGTGCAGCCATGGCCCCAATCAAGGTGGGAGATGCC  
ATCCCAGCAGTGGAGGTGTTTGAAGGGGAGCCAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAG  
GGTGTGCTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCTGCCAGGGTTTGTGGAGCAG  
GCTGAGGCTCTGAAGGCCAAGGGAGTCCAGGTGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAG  
TGGGGCCGAGCCACAAAGGCGGAAGGCAAGGTTTCGGCTCCTGGCTGATCCCACTGGGGCCTTTGGGAAGGAGACA  
GACTTATTACTAGATGATTGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAG  
GATGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAGCCTGGCACCCAATATCATC  
TCACAGCTCTGAGGCCCTGGGCCAGATTACTTCCTCCACCCCTCCCTATCTCACCTGCCAGCCCTGTGCTGGGG  
CCCTGCAATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGGTTTGCGG

3543/6881  
**FIGURE 3269**

AAATGAAGTGC GCGCTGCGACACCTCCCAGCCCACTCCGCCGCCATTTCTCGCTTGGCCTAACGGTTCG  
GCCAATCCCAGCGCGCATCAAGAAGGACTGAGGCTCCGCCAATCGGAGGCCGCCGATTTCGACCCCTTCGCCTCGG  
CCCGGCCCAATCCAGGCCCCGGCCCCGCCGCCCGGCCGCCCGCGGTGCCCTCTCTCTCCCTCTTTGTGC  
GTCTCGCGCCGCCGCCGCCCGCGCTGAGAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTCGGGTCCCCTCCC  
CCCGGGAGGCTTGC GAAGGAGAAGCCGCGCAGAGGAAAAGCAGGTGCCGGTGCCTGTCCCGGGGGCGCCATGG  
CGACCGGAGCGAACGCCACGCCGTTGGACTTCCCAAGTAAGAAGCGGAAGAGGAGCCGCTGGAACCAAGACACAA  
TGGAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATCCCCCTGGACTTACTCGAGAACAAGAAAGAGCTT  
ATATAGTGCAACTGCAGATAGAAGACCTGACTCGTAACTGCGCACAGGAGACCTGGGCATCCCCCTAACCCCTG  
AGGACAGGTCCCCCTCCCCTGAGCCCATCTACAATAGCGAGGGGAAGCGGCTTAACACCCGAGAGTTCCGCACCC  
GCAAAAAGCTGGAAGAGGAGCGGCACAACCTCATCACAGAGATGGTTGCACTCAATCCGGATTTCAGCCACCTG  
CAGATTACAAACCTCCAGCAACACGTGTGAGTGATAAAGTCATGATTCCACAAGATGAGTACCAGAAATCAACT  
TTGTGGGGCTGCTCATCGGGCCCAGAGGGAACACCCTGAAGAACATAGAGAAGGAGTGCAATGCCAAGATTATGA  
TCCGGGGGAAAGGGTCTGTGAAAGAAGGGAAGGTTGGGCGCAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGC  
CACTTCATGCCCTGGTTACTGCCAATACAATGGAGAACGTCAAAAAGGCAGTGGAACAGATAAGAAAACATCCTGA  
AGCAGGTATCGAGACTCCAGAGGACCAGAATGATCTACGAAGATGCAGCTTCGGGAGTTGGCTCGCTTAAATG  
GGACCCCTCGGGAAGACGATAACAGGATCTTAAGACCCTGGCAGAGCTCAGAGACCCGAGCATTACCAACACCA  
CAGTGTGTACCAAGTGTGGAGGGGCTGGCCACATTGCTTCAGACTGTAAATTCCAAAGGCCTGGTGATCCTCAGT  
CAGTTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTGAAGTGGGTGAAGCACCTGTCCCAG  
CATCTGTGGGCTCCACCTCTGGGCCTGCCACCACACCCCTGGCCAGCGCACCTCGTCTGTGCTCCCGCCAACA  
ACCCACCTCCACCGTCTCTCATGTCTACCAACCCAGAGCCGCCACCCCTGGATGAATTCTGGCCCTTCAGAGAGTC  
GGCCCTIACCACGGCATGCATGGAGGTGGTCTGGTGGGCCCCGAGGTGGCCCCCACAGCTTCCACACCCATTAC  
CCAGCCTGACAGGTGGGCATGGTGGACATCCCATGCAGCACAACCCCAATGGACCCCCACCCCTTGGATGCAGC  
CACCACCACACCGATGAACAGGGCCCCCACCCCTCCTGGGCACCATGGCCCTCCTCCAATGGATCAGTACCTGG  
GAAGTACGCCTGTGGGCTCTGGGGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCA  
TGATGCCGCCGCCGCCGCCCTCCAGTGGGCAGCCCCCACCCCTCCCTCTGGTCTCTTCCCCCATGGCAAC  
AACAGCAGCAGCAGCCTCCGCCACCCCTCCGCCAGCAGCAGTATGGCTTCCAGTACCCCTTGCCATGGCAGC  
AAAATACGACGACTACCACCAGAGCGCTGGCACAGGTCCATCCCGCCATGGCAACAGCAGCAGCGGCTGCCG  
CAGCTTCTCCAGGAGCCCCCTCAGATGCAAGGCAACCCCACTATGGTGGCCCTGCCCCCGGGTCCAGCCGCTC  
TGCCGCCCTGGGGCCCCCTCCCCCTCCGCCCGTAGCATCGAGTGTCTTCTTTGTCTTCTTCTCTCCTCACCCAAC  
TCCCTTTGCCTCTCCCCAAACCGGGCGCCAGGATCCCTCCCCGGGCGGCATGGCCGAGCCATGAGAGTGAG  
GACTTTCGCGCCCATTTGGTGACCCCTCCAGGCAGACAGCCTCAGCAACGCCCTGGTGGACAGGATGGTTCCGGC  
AAAGCAGCCTGAGTTATTTTGTGGACGGAATCGGAACACGCTGGCTCCATATCGTGAAATTTTATTAAATTTT  
TTCTTTTTCCTTTGTTACTTCTTTATCTTTTCTTTCTTTCAGACTCCGTCCAAGGAGATGCTCTCCCGGTCTTC  
TGCTGCAATTTAGATTCTTTCCCTTCTCTCCAGTTCTCTTCCCTTACCAAGGAGAGGGGAGCAATGGTTTTG  
GGCAAGGGCTTTGGCCATTATGTCAAGCTGGTTGTGGGTTTTTCAAGGTGCCATAGCCACCCCAATATGTTT  
GTTTAAAGCGTGGGGTTTTTAAATCTCTGCCACCCTTGTCAAGGGAGTCTTGTAAGTTGCCGAGGGTAGGTTCA  
TCTCCAGGTTTCGGGATTCCCATCCGTCTGGCGATCCTGCCAGCAGTGGGTGGGCAGCCTGAGCTCCCTCGGGC  
TCGCTGCCAGCCTGGAGTTCTTCTGTGCTCCTTGATCACCTGAGCTGCCTCAGATTCCATTGGTCTCTCCT  
TCTTGAAGGCTTCCTTTTATGTTTTGTTTTAATCCCAATGTCTGAATGTTTTGCAGTGTGTAGGGGTTGAGC  
CCCTTGTTCAATTCTCTTCTTTTCTTCCCGCTTCCCTCTCCATGAAGTGATTCTGTTGACAATAATGTATACT  
GCGCGTTCTTCTCACTGGTTTATCTGCAGAAATTTCTCTGGGCTTTTTTCGGTGTAGATTCAACACTGCGCTAA  
AGCGGGGATGTTCCATTGAATAAAAGAGCAGTGTGGTTTTCTGGG

3544/6881  
**FIGURE 3270**

GC GCCGGG CCA TGG CGCTG CTG CCGG ATGTGT CGCTG CAGG ACCCG CGGG ACCG CTTCG AGCTG CTG CAG CGCGT  
GGGG CCGG GACCTAT GGG CAGCTCTACA AGG CCGCG ACACGG TCACGTCCG AACTGG CCGCCGTGA AGATAGT  
CAAGCTAG ACCCAG GGGACG ACATCAG CTCCCTCC AGCAGG AAA TCACCATCCTG CGTGAGT GCGGCC ACCCCAA  
TGTGGTGG CCTACATTGG CAGCTACCTCAG GAATGAC CGCTTGTGG ATCTG CATGGAGT TCTGCG GAGGGGGCTC  
CCTGCAGG AGATTACC ATGCCACTGG GCCCCCTGG AGGAGCGGCAG ATTGCCTAC GTCTG CCGAGAGG CACTGAA  
GGGGCTCC ACCACCTGC ATTCTCAG GGAAGATCCAC AGAGACATCA AGGGAG CCAACCTTCTCCTCA CTCTCCA  
GGGAGATGTCAA ACTGGCTG ACTTTGGGGTGT CAGGCGAG CTGACAG CGTCTGTGG CCAAGAGG AGGTCTTTTCAT  
TGGGACTCCCTACTGG ATGGCTCCCG AGGTGGCTGCTGTGG AGCGCAAAGGTGGCTACA ATGAGCTATGTGACGT  
CTGGGCCCTGGGCATCA CTGCCATTGAGCTGG GCGAGCTGCAG CCCCCCTCTGTTCC ACCCTGCACCCCATGAGGGC  
CCTGATGCTCATGTG CAAAGAGCAGCTTCCAG CCGCCCAA ACTGAGAGATAAGACTCGTGG ACCCAGAATTTCCA  
CCACTTTCTCAA ACTGGCCCTGACCA AGAATCCTAAGA AGAGGCCGACAGCAG AGAAGCTCCTGCAGC ACCCGTT  
CACGACTCAGCAGCTCCCTCG GGGCCCTCCTCACA CAGCTGCTGGACAAAGCCAGTGACCCTCATCTGGGGACCCC  
CTCCCCTGAGGACTGTGAGCTGG AGACCTATGACATGTTTCCAGACACCA TTCACTCCCGGGGGCAGCAGGGCCC  
AGCCGAGAGGACCCCTCGGAGATCCAG TTTCAACCAGGTGAAAATTTGGCGCCCCACGCAGGAAGGAAACTGACCC  
ACTGAATGAGCCGTGGGAGGAAGAGTGGACACTACTGGGAAAGGAAGAGTTGAGTGGGAGCCTGCTGCAGTCGGT  
CCAGGAGGCCCTGGAGGAAGGAGTCTGACTATTCCGGTCAGCCTCAGAATTCAGGAGCTGGACTCCCCAGACGA  
TACCATGGGAACCATCAAGCGGGCCCCGTTCTTAGGGCCACTCCCCACTGACCCTCCAGCAGAGGAGCCTCTGTC  
CAGTCCCCCAGGAACCCCTGCCCCACCTCC TTCAGGCCCCAACAGCTCCCCACTGCTGCCACGGCCTGGGCCAC  
CATGAAGCAGCGGGAGGATCCTGAGAGGTCACTCTGCCACGGGCTCCCCCAACTCCCAAGGTGCATATGGGCGC  
CTGCTTCTCCAAGGTCTTCAATGGCTGCCCCCTGCGGATCCACGCTGCTGTGTCACCTGGATTACCCCTGTTACTCG  
GGACCAGTTCTGCTGGTGGTAGGGGCCGAGGAAGGCATCTACACACTCAACCTGCATGAACTGCATGAGGATACGCT  
GGAGAAGCTGATTTACATCGCTGCTCCTGGCTCTACTGCGTGAACAACGTGCTGCTGTCACTCTCAGGGAAATC  
CACGCACATCTGGGGCCATGACCTCCCAGGCCTGTTTGAAGCAGCGGAGGCTACAGCAACAGGTTCCCTCTCCAT  
CCCCACCAACCGCCTCACCACGCGCATCATCCCCAGGCGCTTTGCTCTGTCCACCAAGATTCTTGACACCAAAGG  
CTGCTTGCA GTGCTGTGGTGC GGAACCCCTACACGGGTGCCACCTTCCTGCTGGCGGCCCTGCCACCCAGCCT  
GCTCCTGCTGCAGTGGTATGAGCCGCTGCAGAAGTTTCTGCTGCTGAAGAACTTCTCCAGCCCTCTGCCACGCC  
AGCTGGGATGCTGGAGCCGCTGGTGTGCTGGATGGGAAGGAGCTGCCGAGGTGTGTGTTGGGGCCGAGGGGCCCTGA  
GGGGCCCCGGCTGCCGCGTCTGTTCATGTCTGCCCTGGAGGCTGGCCTGACGCCCCGACATCCTCATCCCACC  
TGAGGGGATCCCAGGCTCGGCCCCAGCAGGTGATCCAGGTGGACAGGGACACAATCCTAGTCAGCTTTGAACGCTG  
TGTGAGGATTGTCAACATGCAGGGCGAGCCACGGCCACACTGGCACCTGAGCTGACCTTTGATTTCCTCATCGA  
GACTGTGGTGTGCTGCAGGACAGTGTGCTGGCCTTCTGGAGCCATGGGATGCAAGGCCGAAGCCTGGATACCAA  
TGAGGTGACCCAGGAGATCACAGATGAAACAAGGATCTCCGAGTGTGTTGGGGCCACAGAGACATCATCCTGGA  
GAGCATTTCCACTGACAACCCAGAGGCGCACAGCAACCTCTACATCCTACGGGCCACCAGAGCACCTACTAAGA  
GCAGCGGGCCTGTCCAGGGGCTCCCCGCCCCACCCACGCCTTAGCTGCAGGCCCTTTTGGGCAAAGGGGGCCAT  
CCTAGACCAGAGGAGCCAGGCCCTGGCCCTGCTGGGGCTGAAGGTGAGAAGTAATCCTGAGAAATGTTTCAGGC  
CTGGGGAGGGAGGGGAGCCCCGACGCCTCTGCAATAACTGGACCAGGGGGAGCTGCTGTCACTCCCCATCCCC  
GAGGCAGCCAGTCCCTAGTGCCCAAGGCAGGGACCTGGGCCTGGGCCATCCATTCCATTTTGTTCACATTTT  
CTTTCTACTCTTTCTGCCAAGAGCCTGCCCTGCATTTGCTCTGGGAAACACGGTATTTAAGAGAGAACTATATT  
GGTATTAAAGCTGGTTTGT

3545/6881  
**FIGURE 3271**

GGCACCAGTCGGAGGGGCGGGGCTGGGAGGGGCTCCTCCCTACCGCCCCAATTCCGCCCTGCCCCCGCCGCGG  
GGCGCTAGCCGCCACTGAGGGACCGACCCTATAAAGCCGCTCCGCGAGGGGTGCGCAGCATTTCGGCAGAGGGCG  
CTTCGACGGGCTGGGCTGTGCGCTGCGCAGTGTGGGTGCGTCCCATTCCCTGCCCCGGCCGGCCCCCGCTCGG  
CTCCGCACCCTCGCCCCGCTCTCAGCCGCCGCTCTGCCCCGAGCAGCCAGCCCCGTGTCCGGCAGTATGTTTCA  
CTGGGTAGCAAGGATGCCCCGCCAAGAAGGAGCCGGAGCTCTTCAGACGGTGGCTGAGGGGCTGCGGCAGCT  
GTACCGCGAGAAGCTGTACCCCTGGAGGAGCACTACCGCTTCCACGAGTTCCACTCGCCCCGCGCTGGAGGACGC  
TGACTTCGACAACAAGCCTATGGTGTCTCTCGTGGGGCAGTACAGCACGGGCAAGACCACCTTCATCCGACACCT  
GATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCCGAGCCACCACCGACTCCTTCATCGCCGTCATGCACGG  
CCCCACTGAGGGCGTGGTGCCGGGCAACGCGCTCGTGGTGGACCCGCGCGCCCCCTTCCGCAAGCTCAACGCGTT  
TGGCAACGCTTTCTCAACAGGTTTCATGTGTGCCAGCTGCCCAACCCCGTCCTGGACAGCATCAGCATCATCGA  
CACCCCCGGGATCCTGTCTGGAGAGAAGCAGCGGATCAGCAGAGGCTATGACTTTGAGCCGCTCTGGAGTGGTT  
CGCGGAGCGTGTGGACCGCATCATCCTGCTCTTCGACGCCACAAGCTGGACATCTCCGATGAGTTCTCGGAAGT  
GATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGCGTGGTGTGAACAAGGCAGACCAGATCGAGACGCAGCA  
GCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTGGGCAAGATCATCAACACCCCCGAGGTGGTCAGGGTCTA  
CATCGGCTCCTTCTGGTCCACCCGCTCCTCATCCCCGACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCT  
CTTCAAGGACATCCAGTCACTGCCCCGAAACGCCGCCCTCAGGAAGCTCAATGACCTGATCAAGCGGGCACGGCT  
GGCCAAGGTTACGCCTACATCATCAGCTCCCTCAAGAAAGAGATGCCCAATGTCTTTGGTAAAGAGAGCAAAAA  
GAAAGAGCTGGTGAACAACCTCGGAGAGATCTACCAGAAGATTGAGCGCGAGCACCAGATCTCCCTGGGGACTT  
CCCGAGCCTCCGCAAGATGCAGGAACCTCTGCAGACCCAGGACTTCAGCAAGTTCCAGGCGCTGAAGCCCAAGCT  
GCTGGACACGGTGGATGACATGCTGGCCAACGACATCGCGCGGCTGATGGTGTGGTGGCGCAGGAGGAGTCCCT  
GATGCCTTCCCAGGTGGTCAAGGGCGGCGCCTTTGACGGCACCATGAACGGG<sup>2</sup>CCGTTTCGGGCACGGCTACGGCGA  
GGGGGCCGGCGAGGGCATCGACGACGTGGAGTGGGTGGTGGGCAAGGACAAGCCACCTACGACGAGATCTTCTA  
CACGCTGTCCCCTGTCAACGGCAAGATCACGGGCGCCAACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCCAA  
CACCGTGCTAGGGAAGATCTGGAAGCTGGCCGACGTGGACAAGGACGGGCTGCTGGACGACGAGGAGTTCGCGCT  
GGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCACGAGCTGCCTGCCGACCTGCCCCCGCACCTGGTGCCGCC  
CTCCTCTGCCTGGGGCCATTGAGCCCAGCCTCCAGGGCCCCGGCGGTTTGCAGGCCAGTGGCCACTGTCCGGGC  
TGTGATGGCACCAAGGCAGGTGGAGCACCAGGTACCACACAGCTGGGCTTCCCACCAGGCTTTCCCGCGGGGTC  
TCAGGGAGCTTCTCCCAGCGCTGCTCGGAGTCTGCAGGAAGTGGCCTTGTTCTCCTTAGCCCGTCACTCCATAC  
AGTATTAGGTGAGGATGGATGCGGGCGCTGTCTTGC<sup>3</sup>GGGAAGTCACTGTTGAAGTTGCAGTGGCTTGTTCACA  
CCTGTGGGAAGAGAAGTGAAGACTTCTCCTTGCA<sup>4</sup>TAAAAAGTCTGAAGTGTG

3546/6881

**FIGURE 3272**

MFSWVSKDARRKKEPELFQTVAEGLRQLYAQKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVGQYSTGKTTFI  
RHLIEQDFPGMRIGPEPTTDSFIIVMHGPTTEGVVPGNALVVDPRRPFRKLNAFGNAFLNRFMCAQLPNPVLDSIS  
IIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNHEDKIRVVLNKADQIE  
TQQLMRVYGALMWSLGGKIINTPEVVRVYIGSFWSHPLLIPDNRKLFEEQQDLFKDIQSLPRNAALRKLNDLIK  
ARLAKVHAYIISSLKKEMPNVFGKESKKKELVNNLGEIYQKIEREHQISPGDFPSLRKMQELLQTQDFSKFQALK  
PKLLDTVDDMLANDIARLMVMVRQESLMP SQVVKGGAFDGTMNGPFGHGYGEGAGEGIDDVEWVVGKDKPTYDE  
IFYTTLSPVNGKITGANAKKEMVKSCLPNTVLGKIWKLADVDKDLLDDEEFALANHLIKVKLEGHELPADLP  
VPPSSAWGH

3547/6881  
**FIGURE 3273A**

ACGGGGATCGCCGGCGGGCGGCAAGCGGAGGCGGCCAGGCCCGGGCGGTCTCCGAGATGTCACGATGGCTGTGGC  
CATGGTCAAACGTGTGTAAAGAGCGGGTCTGCCGCTACTTGTCTGCACCACTACTTAGGTCACTTCTTCCAAGAGC  
ACCTCAGCCTGGACCAGCTCAGCCTCGATCTGTACAAGGGCAGCGTTGCCCTGCGAGACATCCACCTGGAAATCT  
GGTCTGTGAACGAGGTGCTGGAGTCAATGGAGTACCGCTGGAGCTGGTGAAGGCTTCGTGGGCTCCATCGAGG  
TGGCCGTGCCCTGGGCTGCTCTGCTCACCAGCACTGCACAGTGCAGCTGTCCGGCCTCCAGCTCACCTTGCAGC  
CCCGCCGGGGTCCAGCGCCAGGGGCTGCCACTCACAGAGCTGGGCCTCATGTCATGACCACAAGCCTGCAGCTGG  
CCCAGGAGTGTCTGCGGGATGGGCTACCGAGCCCTCTGAGCCACCACAGCCCTGGAGGGGCTGGAGATGTTTG  
CCCAGACCATTGAGACTGTGCTTCGGAGGATCAAAGTGACCTTCTCTGGACACTGTCTGTAGGGTGGAGCACTTC  
CGGGTGATGGGGAACGTGGTGTGGCCGTGAGGTCCGTGTGACAGAGACTGGAGTACTGTGATGAGGCAGTGCAGG  
ACCCAAGCCAGGCGCCCGGGTGGACGTGCATCAGCCGCTGCCTTCTGCAACAAGCTGTCTGAGCTGGCAGGGG  
TCCGCTGCACCTACGAGGAGCTCCCGGCACAGGAAGAGCCTCCAGAGCCCCCTTGAGATCGGCAGCTGCTCAG  
GGTACATGGAGCTGATGGTGAAGTTGAAGCAAAATGAGGCTTCCCTGGCCCCAAGTTGGAGGTGGCGGGACAGC  
TGGGCTCCCTGCACCTGCTCTGACCCGAGGCAGCTCCAGCAACTTCAGGAAGTGTCTCAGCGCCGTGAGCCTTA  
CAGACCAGAGGGCCTGGCTGACAAGCTGAACAAGAGCCGCCCTAGGTGCCGAAGACCTGTGGCTGATTGAGC  
AGGACCTGAACCAGCAGCTGCAGGCAGGGGCACTGGCTGAGCCCCCTCAGCCAGACCCCCCTTACCAACCCCCCTTC  
TCAACCTGGATAACACTGACCTCTTCTTCTCCATGGCTGGCCTCACAAGCAGTGTGGCCTCAGCCCTCTCTGAGC  
TCTCCCTCTCCGATGTAGACCTGGCCTCCTCTGTGCGCAGCGACATGGCCTCCCGCCGGCTCTCTGCCCAGGCC  
ACCCAGCTGGCAAGATGGCCCCCAACCCCCCTCTGGACACCATGCGCCCTGACTCGCTGCTGAAGATGACCTTGG  
GGGGTGTGACCTGACCTTGTCTTCAAGCTGTGCCCCATCTTCCGGACCACCTGACCTCGCCACGCACTTTTTCA  
CCGAGTTTGATGCCACCAAGGATGGGCCCTTCGGTTCCCGAGACTTCCATCACCTTCGACCACGCTTCCAGAGGG  
CCTGTCCCTGTAGCCATGTTTCGGCTAACGGGCACAGCCGTGCAGCTGTCTTGGGAGCTGCGGACGGGCAGTCCGG  
GCCGGCGGACAACCAGCATGGAAGTGCACCTTCGGGCAGCTGGAGGTGCTGGAGTGTCTGTGGCCCCGGGGCACCT  
CTGAGCCTGAGTACAGGAGATCCTGACCTTCTCTGGTACGCTGGGCTCCAGGCCCTCAGCTCGGCCCTGCGCCC  
ATCTGCGCCACACACAGATCCTGCGCCGTGTGCTAAGAGCCGACCCCGCGCTCAGTTGCCCTGCCATTGCCACT  
CAGAACTGGCCCTGGACCTGGCCAACTTCCAGGCGGACGTGGAGCTGGGGGCCCCGGACCGGCTGGCCGCCCTAC  
TGCGCCTGGCCACCGTACCTGCTGAGCCTCCAGCCGGCCTGCTGACAGAGCCCCCTGCCGGCGATGGAGCAGCAGA  
CGGTATTTCCGGCTCTCTGCACCCCGGGCCACGCTGCGGCTGCGCTTCCCCATTGCCGACCTGCGGCTGAGCCGG  
ACCCCTGGGCGGGCCAGGCCGTGCGGGCTGAGCAGCTTCGGCTGGAGCTGAGTGAAGCCCACTTCGGGTGAGAGC  
TTAGCAGTGGGCTGGTCCCCAGTCCCCACCCACCTGGAACCTCACCTGCTCCGACCTACATGGTATCTATGAAG  
ATGGAGGGAAGCCACCTGTCCCTTGCCTGCGTGTCTCAAAGCCCTGGACCCCAAGAGCACTGGGCGCAAGTACT  
TCTGCCCCAGGTAGTGGTGAAGTGTGAACCCCACTCCAGCAGCACACAGTGGGAGGTGGCCCCGGAGAAGGGAG  
AGGAACTGGAGCTGTGAGTGGAGAGTCCCTGTGAGCTGCGGGAACCTGAGCCCTCGCCCTTCTCTTAAGAGGA  
CCATGTATGAGACAGAGGAGATGGTGTATCCCTGGAGACCTGAGGAGATGAGGACGTTCCAGAGCCGGACCTGG  
CACTGTCCCGCTGCAGCCTGGAAGTGTCTGCCAGTGTCCACATCTTCTGCCCAGCAAGGAGGTCTACGAGA  
GCATCTACAACAGGATCAACAACGACCTGTCTATGTGGGAGCCTGCAGATCTGCTTCCACCCCCGACCCCGCCG  
CCCAGCCCTCGGGCTTCCCCGGCCCCCTCAGGCTTCTGGCACGACAGCTTTAAGATGTGAAGTCAGCCTTCAAGC  
TGGCCAACTGCTTTGATCTCACCCAGACTCGGACTCGGATGACGAGGATGCCCACTTCTTCTCAGTGGGGGCAT  
CAGGTGGCCACAGGCCGTGCCCCTGAGGCCCAAGTCTTCACTTGACAGACACCTTCTCTACACTGGTGACAG  
TGCTGAAGGGGCGGATCACAGCCCTCTGTGAGACCAAGGATGAGGGTGGGAAGCGGCTGGAGGCTGTGCACGGG  
AGCTGGTGTGAGATGGAGCAGGTAACCTCTTCAAGCTCTCCAGTACTGTGGCCAGCCAGGACTTGGCTACT  
TCTGTCTGGAAGCTGAAAAGGCAACACTCTACCACCGAGCGGCCGTGGATGACTACCCGCTGCCAGTCACCTGG  
ACCTTCCAGTTTCGCTCCCCCGGCTCAGCTGGCCCCAACCATCTACCCATCGGAGGAAGGGGTGACCGAGCGGG  
GAGCCTCGGGCCGAAGGGCCAGGGCCGGGGACCCACATGTTGTCCACTGCTGTGCGCATCCACCTGGACCCCC  
ACAAGAATGTGAAGGAGTTCTTGGTGAAGTGCAGTGTGACAAAGCCACCTTGGCCACTACATGGCCCTGCCCCG  
AGCAGAGCTGGCATTCCAGTTGTTGGAGTTCTTAGACGTGCTGGATGACCTGTGCTGGGCTACCTGCCCCGA  
CGGTATCACCATCTGCACACACCTGTTCTCTGCTGTGAGTATAGGCCACTTACCTCCAGTGCCTG  
TCTCATCACCGCGGAGACCTTCACTCTCTCCAGCAACATCATATGACACCTCCACCTTCTGCTCAGGTTCA  
TCTTCGATGACTCCGCCTTGTAACCTGTCCGACAAGTGTGAGGTGGAGACCCTGGACCTGCGGCGAGATTATGTCT



3548/6881  
**FIGURE 3273B**

GTGTTTTGGATGTTGACCTCTTGGAACCTTGTGATTAAACCTGGAAAGGGAGCACCGAGGGCAAACCTGAGCCAGC  
CACTATTCGAGCTGCGCTGCTCCAACAATGTGGTACACGTGCACAGCTGTGCCGACTCCTGTGCCCTGCTGGTCA  
ACCTGCTCCAGTACGTAATGAGCACAGGCGATCTGCACCCCCACCCCGCCCCCAGCCCCACGGAGATCGCCG  
GCCAGAAGCTCTCGGAGAGTCTGCTCTCTGCCCCCTGCGCCCCCAGTGGAGACGGCCCTCATCAACCAGCGTG  
ACCTGGCCGACGCCCTCCTGGACACCGAGCGCAGCCTACGGGAGCTGGCCAGCCTTCAGGTGGCCACCTCCCTC  
AGGCGTCGCCCATCTCCGTCTACCTATTCCCAGGTGAACGGAGTGGGGCCCCACCCCTTCACCACCTGTCGGGG  
GCCCTGCTGGCAGCTTAGGGTCATGCTCAGAGGAGAAGGAAGATGAAAGGGAAGAGGAGGGCGATGGAGACACCC  
TGGACAGTGATGAGTTCTGCATCCTTGATGCTCCCGCCTGGGCAICCCGCCCCGAGATGGGGAGCCTGTGGTGA  
CACAGCTGCATCCCGGCCCATCGTTGTGAGGGACGGTTACTTCTCACGGCCGATCGGCAGCACGGACTTGCTGC  
GGGCACCTGCCCATTTCCAGTGCCAGCACTCGGGTGGTGTCTACGTGAGGTCTCCCTCGTCTGGCACCTCTATG  
GGGGCCGAGACTTTGGCCCCACCCGGCCACAGGGCAAGAACTGGCCTCTCAGGTCCAGGAGCTCCCTTCCC  
GCTGCTCTGGCCCCAACCGGCCCCAGAACTCATGGCGCACGCAGGGGGGAGCGGGGCGCAGCACCATGTCTCTCA  
TGGAGATCCAGCTGAGCAAGGTAAGCTTCCAGCACGAGGTGTACCCAGCGGAGCCAGCCACAGGCCCTCGGGCCC  
CCAGCCAGGAGCTGGAGGAGCGACCGCTGTCCCGTCAGGTGTTTCATCGTGCAGGAGCTGGAGGTCCGAGACCGGC  
TCGCTCTCTCCAGATCAACAAGTTCTGTACCTACACACGAGTGAGCGGATGCCGCGACGTGCCCACTCTAACA  
TGCTCACCATCAAAGCGCTGCATGTGGCCCCACTACCAACCTGGGTGGGCCTGAGTGTGTCTCCGCTCTCGC  
TGATGCCCTTGGGCTCAATGTGGACAGGATGCCCTCTTCTTCTCAAGGACTTCTTCACTAGTCTGGTGGCCG  
GCATCAACCCCTGGTCCCAGGGGAGACCTCCGCTGAGGCTCGCCCCGAGACTCGAGCCAGCCAGCAGCCCCC  
TGAAGGGCAGGCCGAAGGCGTAGAGACCACTGGTTCGCAGGAGGCCCCAGGAGGTGGACACAGCCCTCCCTC  
CTGACCAGCAGCCATCTACTTCAGAGAGTTCCGCTTCACGTCTGAGGTCCCCATCTGGCTGGATTACCATGGCA  
AGCACGTACGATGGACCAGGTGGGCACTTTTGTGGCCTCCTCATCGCCTGGCCCAACTCAACTGCTCCGAGC  
TGAAGCTAAAGCGGCTCTGTTGCAGGCACGGGCTCCTGGGTGTGGACAAGGTGCTGGGCTATGCCCTCAACGAGT  
GGCTGCAGGACATCCGCAAGAACCAGCTGCCCGGCTGCTGGGAGGCGTGGGCCCCATGCACTCGGTTGTCCAGC  
TCTTCCAAGGGTTCCGGGACCTGCTGTGGCTGCCCATTTAGCAGTACAGGAAGGATGGCCGCTCATGCGGGGGC  
TGCAGCGAGGGGCTGCCTCCTTTGGCTCATCCACAGCCTCTGCCGCTTGGAACTCAGCAACCGGTTGGTACAGG  
CTATCCAGGCCACAGCTGAGACCGTGTATGACATCCTGTCCCCGGCAGCCCCCGTCTCCCGCTCCCTGCAGGATA  
AGCGCTCTGCGCGGAGGCTGCGCAGGGGCCAGCAGCCTGCCGACCTGCGGGAGGGTGTGGCCAAGGCCACGACA  
CAGTGCAGAGAGGGCATCTTGGATACAGCTCAGACCATCTGTGACGTGGCATCGCGGGGCCATGAGCAGAAGGGGC  
TGACGGGCGCCGTGGGGGGCGTGATCCGCCAGCTGCCCCGACTGTGGTGAAGCCGCTCATCCTGGCCACGGAGG  
CCACGTCCAGCTGCTCGGGGGCATGCGCAACCAGATTGTCCCCGACGCCACAAAGGACCAGCCCTCAAGTGGC  
GCTCGGACAGTGCCCAAGACTGAGCCTGGGGTGCCCGGCACCCAGAGGGTGCTGCCCACCATGCTCCTGAGCCTC  
CCAAGAGCTGCAGCCACGGGCCCGGCCCGGCCCTTGCCCTTCAGGGGATGGCCACTGTGAAGGACGCCCTTCCCAG  
CCTGCCCGTTGCCAATCTGCTGTGAGAGGGGGGCTCCCTGCCTTGGGGCCTTAGCCCTGGCTCTGCACTTTTCC  
TCCGGGGAGAAAGGACACTGCCCCCTCCCCGACCTGGGGCCACACTGCTGCCTTCTCCAGGACGGAGGCTTTTG  
GACCTTCGGACCCCATCCCACTCAGCCAAGTGTCTTTCTGTGTCTGGGGGGAGGAGGGGATGATATCCGTGTGGT  
TCGATGTATTATTTTAAAGCTCCGTGAGTGCCTGGGTGAGTGTCTGCATGAAGTGAATAAACTGCCACCGCC

3549/6881  
**FIGURE 3274**

MSRWLWPWSNCVKERVCRYLLHHYLGHHFFQEHLSLDQLSLDLYKGSVALRDIHLEIWSVNEVLESMESEPLELVEG  
FVGSIEVAVPWAALLTDHCTVRVSGQLTLQPRRGPAAGAADSQSWASCMTTSLQLAQECLRDGLPEPSEPPQPL  
EGLEMAQTIETVLRRIKVTFLDTVVRVEHSPGDGERGVAVEVRVQRLEYCDEAVRDP SQAPPVDVHQPPAFLHK  
LLQLAGVRLHYEELPAQEPEPPLQIGSCSGYMELMVKLKQNEAFPGPKLEVAGQLGSLHLLLTFRQLQLQEL  
LSAVSLTDHEGLADKLNKSRPLGAEDLWLEQDLNQQLQAGAVAEPLSPDPLTNPLNLDNTDLFFSMAGLTSSV  
ASALSELSLSDVDLASSVRSDMASRRLSAQAHAPAGKMAPNPLD TMRPDSLKMTLGGVTLLTLLQTSAPSSGPPD  
LATHFFTEFDATKDGPFGRDFHHLRPRFORACPCSHVRLTGTAVALSWELRTGSRGRRTTSMEVHFQGLEVLEC  
LWPRGTSEPEYTEILTFPGTLGSQASARPCAHLRHTQILRRVPKSRPRSVACHCHSELALDLANFQADVELGAL  
DRLAALLRLATVPAEPPAGLLTEPLPAMEQQTVFRLSAPRATLRLRFP IADLRPEPDPWAGQAVRAEQRLRLSE  
PQFRSELSSGPGPPVPTHLELTCSDLHGIYEDGGKPPVPCLRVSKALDPKSTGRKYFLPQVVTVNPPSSSTQWE  
VAPEKGEELSVESPCELREPEPSPFSSKRTMYETEEMVIPGDPEEMRTFQSRTLALSRCSEVILPSVHIFLP  
SKEVYESIYNRINNDLLMWEFADLLPTDPAAPQSGFPGSGFWHDSFKMCKSAFKLANCFDITPDSDDDEDAH  
FFSVGASGGPQAAPEAPSLHLQSTFSTLVTVLKGRITACETKDEGGKRL EAVHGELVLDMEHGTLSVSYQCG  
QPGLGYFCLEAEKATLYHRAAVDDYPLPSHLDLPSFAPPAQLAPT IYPSEEGVTERGASGRKGQGRGPHMLSTAV  
RIHLDPHKNVKEFLVTLRLHKATLRHYMALPEQSWHSQLEFLDVLDDPVLGYLPPTVITILHHLFSCSVDYRP  
LYLPVRVLITAEFTLSSNIIMDTSTFLLRFILDDSAHYLSKCEVETL DLRRDYVCVLDVLDLLELVIKTWKGST  
EGKLSQPLFELRCSNNVVHVHSCADSCALLVNLQYVMSTGDLHPPPRPPSPTEIAGQKLSSESPASLPCPPVET  
ALINQRDLADALLDTERSLRELAQPSGGHLPQASPI SVYLFPGERSGAPPPSPVGGPAGSLGSCSEEKEDERE  
EGDGDITLSDSEFCILDAPGLGIPPRDGEPPVTQLHPGPIVVRDGYFSRP IGSTDLLRAPAHFPVPSTRVVLREVS  
LVWHLYGGRDFGPHPGHRARTGLSGPRSSPSRCSGPNRPQNSWRTQGGSGRQHHLVMEIQLSKVSFQHEVYPAEP  
ATGPAAPSQELEERPLSRQVFI VQELEVRDRLASSQINKFLYLHTSERMPRRASHNMLTIKALHVAPTTLNKGPE  
CCLRVSLMPLRLNVDQDALFFLKDFFTSLVAGINPVVPGETSAEARPETRAQPS SPLEGQAEGVETTGSEAPGG  
GHSPSPPDQPIYFREFRFTSEVP IWL DYHGKHVTMDQVGTFAGLLIGLAQLNCSSELKLRCCRHGLLGVDKVL  
GYALNEWLQDIRKNQLPGLLGGVGPMHSVVQLFQGFRLWLPIEQYRKDGRLMRGLQRGAAFSSTASAALEL  
SNRLVQAIQATAETVYDILSPAAPVSRSLQDKRSARRLRGQQPADLREGVAKAYDTVREGILDTAQ TICDVASR  
GHEQKGLTGAVGGVIRQLPPTVVKPLILATEATSSLLGGMNQIVPDAHKDHALKWRSDSAQD

3550/6881  
**FIGURE 3275**

AAGGAGAGAGGGAGGGCGGAGGGCGGAGGGCGGCGGGAGGAGGGCGGGAGGAGCGCTCTTCCTGGTTGGGCCC  
TGCCCTGAGCTGCCACCGGGAAGCCAGCCTCAGGGACTGCAGCGACCCCCAAACACCCCTCCCCCAGGATGTGGG  
AGGAGATCATCAGCCGGTGTACTGCACTGGGGTGTGAGCCCAAGTGCAGAAGCAGCGGGCCAGGGAGCTGGGCC  
TGGGCCGCCATGAGAATGCCATCAAGTACCTGGGCCAGGATTATGAGCAGCTGCGGGTGCATGCCTGCAGAGTG  
GGACCCTCTTCGGTGATGAGGCCTTCCCCCGGTACCCAGAGCCTGGGTTACAAGGACCTGGGTCCCAATTCTT  
CCAAGACCTATGGCATCAAGTGAAGCGTCCCACGGAAGTGTGTCAAACCCCCAGTTCATTGTGGATGGAGCTA  
CCCGCACAGACATCTGCCAGGGAGCACTGGGGGACTGCTGGCTCTTGGCGGCCATCGCCTCCCTCACTCTCAACG  
ACACCCCTCTGCACCGAGTGGTTCCGCACGGCCAGAGCTTCCAGAAATGGCTATGCCGGCATCTTCCATTTCCAGC  
TGTGGCAATTTGGGAGTGGGTGGACGTGGTTCGTGGATGACCTGTGCCCATCAAGGACGGGAAGCTAGTGTTCG  
TGCACTCTGCCGAAGGCAACGAGTTCTGGAGCGCCCTGCTTGAGAAGGCCCTATGCCAAGGTAAATGGCAGCTACG  
AGGCCCTGTGAGGGGCGAGCACCTCAGAGGGCTTTGAGGACTTCACAGCGGGGTTACCGAGTGGTACGAGTTGC  
GCAAGGCTCCCACTGACCTCTACCAGATCATCCTCAAGGCGCTGGAGCGGGGCTCCTGTGGGCTGCTCCATAGA  
CATCTCCAGCGTTCTAGACATGGAGGCCATCACTTCAAGAAGTTGGTGAAGGGCCATGCCTACTCTGTGACCGG  
GGCAAGCAGGTGAACCTACCGAGGCCAGGTGGTGAGCTGATCCGGATGCCGAACCCCTGGGGCGAGGTGGAGTG  
GACGGGAGCCTGGAGCGACAGCTCCTCAGAGTGAACACAGTGGACCCATATGAACGGGACCACTCCGGGTCAA  
GATGGAGGACGGGGAGTTCTGGATGTCAATCCGAGACTTCATGCGGGAGTTACCCGCCTGGAGATCTGCAACCT  
CACACCCGACGCCCTCAAGAGCCGGACCATCCGCAAAATGGAACACCACACTCTACGAAGGCACCTGGCGGCGGGG  
GAGCACCGCGGGGGGCTGCCGAAACTACCCAGCCACCTTCTGGGTGAACCCCTCAGTTCAAGATCCGGCTGGATGA  
GACGGATGACCCGGACGACTACGGGGACCGCGAGTCAAGCTGCAGCTTCGTGCTCGCCCTTATGCAGAAGCACCG  
TCGCCGCGAGGCCGCTTCGGCCGCGACATGGAGACTATTGGCTTCGCGGTCTACGAGGTCCCTCCGGAGCTGGTC  
GCGAGCCGGCCGTACACTTGAAGCGTGACTTCTTCTTGCCAATGCGTCTCGGGCGCGCTCAGAGCAGTTTCATCA  
ACCTGCGAGAGGTGAGCACCCGCTTCCGCTGCCACCCGGGGAGTATGTGGTGGTGCCTCCACCTTCGAGCCCA  
ACAAGGAGGGCGACTTCGTGCTGCGCTTCTTCTCAGAGAAGAGTGTGGGACTGTGGAGCTGGATGACCAGATCC  
AGGCCAATCTCCCCGATGAGCAAGTGTCTCAGAAGAGGAGATTGACGAGAACTTCAAGGCCCTCTTCAGGCAGC  
TGGCAGGGGAGGACATGGAGATCAGCGTGAAGGAGTTGCGGACAATCCTCAATAGGATCATCAGCAAACACAAAG  
ACCTGCCGACCAAGGGCTTCAGCCTAGAGTTCGTGCCGACGATGGTGAACCTCATGGATCGTGATGGCAATGGGA  
AGCTGGGCCTGGTGGAGTTCAACATCCTGTGGAACCGCATCCGGAATTACCTGTCCATCTTCCGGAAGTTTGACC  
TGGACAAGTCGGGCAGCATGAGTGCCTACGAGATGCGGATGGCCATTGAGTCGGCAGGCTTCAAGCTCAACAAGA  
AGCTGTACGAGCTCATCATACCCGCTACTCGGAGCCCGACCTGGCGGTGCACTTTGACAATTCGTTTGCTGCC  
TGGTGGCGCTAGAGACCATGTTCCGATTTTCAAAACTCTGGACACAGATCTGGATGGAGTTGTGACCTTTGACT  
TGTTTAAAGTGTTGACGCTGACCATGTTTGATGAGGACAGGACTCGGTCCCCCTTGCCGTGCTCCCCCTCCCTCC  
TCGTCTGCCAAGCCTCGCCTCCTACCACACCACACAGGCCACCCAGCTGCAAGTGCCTTCCCTGGAGCAGAGA  
GGCAGCCTCGTCTCCTGTCCCCCTCTCCTCCAGCCACCATCGTTTCATCTGCTCCGGGCAGAACTGTGTGGCCCC  
TGCTGTGCCAGCCATGGGCTCGGGATGGACTCCCTGGGCCCCACCCATTGCCAAGCCAGGAAGGCAGCTTTCGC  
TTGTTCTGCTCGGGACAGCCCCGGGTTTCCCCAGCATCTGATGTGTCCCTCTCCCCACTTCAGAGGCCACC  
CACTCAGCACACCAGGCCCTGGCCTTGCTGCAGACTATAAACTATAAACCCTAGCTCGACACAGTCTGCAGTCCA  
GGCGTGTGGAGCCGCTCCCGGCTCGGGGAGGCCCGGGGCTGGGAACGCCTGTGCCTTCTGCGCCGAAGCCAA  
CGCCCCCTCTGTCTTCCCTGGCCCTGTGCGGACAGGAGCTGCCAGCCTGTGGGCGGTGCGCCTTCCCTCCT  
TCGCTCCTTTTTTATATTAGTGATTTTAAAGGGGACTCTTCAGGGACTTGTGTACTGGTTATGGGGGTGCCAGAG  
GCACTAGGCTTGGGGTGGGGAGGTCCCGTGTTCATATAGAGGAACCCCAAATAATAAAAGGCCCCACATCTGTC  
TGTG

3551/6881

**FIGURE 3276**

GTAGCAGGTAAAGATGGCAGCTACCATGTTCCGGGCTACGCTGCGGGGATGGAGAACCGGTGTCCAGCGGGGCTG  
CGGGCTACGGCTGTTGAGCCAGACCCAGGGCCCTCCAGATTACCCAGGTTTGTGGAGTCTGTGGATGAATATCA  
GTTTGTGGAGCGCCTGTTACCGGCTACCAGGATCCCAGATCCCCCAAAGCATGAACATTATCCTACCCCTAGTGG  
CTGGCAGCCTCCCAGAGACCCCCACCCAACCTGCCTTACTTTGTACGACGCTCTCGGATGCACAACATCCCCGT  
CTACAAGGACATCACGCATGGCAACCGGCAGATGACTGTGATCCGGAAAGTGAAGGGGACATCTGGGCCCTGCA  
GAAAGACGTGGAAGATTTTCTGAGCCCGCTGCTGGGGAAGACACCTGTCAACCAGGTCAATGAGGTGACAGGTAC  
CCTACGGATCAAGGGCTACTTTGACCAGGAGCTTAAAGCCTGGCTCTTGGAGAAAGGCTTCTGAGGCCAGCCGA  
GCAGCTGCTTGTGAGCATGCCCTGTGGATCAAGTCTAGGGGGCCTCAGGAGGAGGGAGGTGGGTGTTGGAGCCC  
CTGAGACAGGGGATACAGAACTAGGGCTAAAGGACTTTGGGGTCAGGCCTTGCTTGCATAAAGGAGAAAACAAC  
TCTATGTACATGCTGGGGGAGAGTGCCTAATGTGGGAGACCAAATAGGGATCACCAGGCTAATGGGGGGCGTCAG  
CAGCTTCTCTCCCTCCTATCTTGGCCTGTTCTTTTTTGTTTTTTGTAGACGAGTCTCACTCTGTTGCCAGGGT  
GGAGTGCAGTGGCATGATCTTGGCTCACTGCAACTTCCACCTCTGGGATCAAGGGATTCTCCTGCCTCAGCCTCT  
TGAGTAGCTGGGATTACAGGCGCCACCACCACAGCCTGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCAC  
CATGTTGGCCAGGCTGGTCTCAAACCTCCTGACTCGAAGTGATCCGCCCACCTTGGCCTCCCAAAGCGTTGGGATT  
ATAGGCATGAGCCATGTGCTGGTCCACCTTGGCCTGTTTTGTTTTTCTTTCTTGGGCTCAGCAATTCAAATTC  
TAGTTGTTATTTGGTGAAGCAGTAGCCCAACCCAGTTTAGGGGAAGGTAGCACAGGGCAGAGCCACTGGGCAC  
TTTGTTCCTTGGCCCTCCGAAGCTCACTGTTGCAAATACCCCAAGCCTTGCTCTAGGCCAGATCTTGTTTGG  
TGCAGGTGATGGAGAACACAGATGACTCGGGCATGGGCTTGGAGATCTTCTGTTCAAAGTACAGTGCTGGCACT  
GGGGCAGAGTGGCCACGTTAGCCCCGGGCTCTGATAGAGAGGTAGGAGGCACGTTCTTGGTCACTGTTCCATT  
GCAGACCAGACTTGCTGGCCTGACCACAAGGGAGTGGCTGGGAACTCACAGCCAGCATAGGGACATCCCCCTGCA  
GCCTTCTGACCTGCAATCAAGGCTGGGGAGGGGTTTGCAGGCAGGAATATGCTGACCTTTACCCCTGCCATCCCA  
TCCCAACCCCAAGCTCACTAGCCTTCATATATGCCTTATACTTGGAGTCACAGGGGCCAAAGGCCTGAGACCCAC  
CCTGCCCCCAAAGTGGCTAAGACAGCTTTCACTTCTGACTCCCCAACTTGGTCTCTGCCCTGAAGCAGGGCACT  
GAACTCTGGGCTGCTTCTCTGTGTGTAATAAGGGCACATCTTCCTAATCTGTTAATGGTCAGTGGTGTCCCAAG  
GATAGTCTGGCTTCCATGGAAACCTCACTCCTGGAGATTCCATTCCATTTTCAAGTGTACAGCCACAGCAAGG  
AGCCCGACACTGATTTGATCGATTCTGTGACACAAACCCCAACCAATTGTTAATGCAAGTTTTTATTGGCTGTAT  
ATACAATTTAAGCTATTAAAAATTTGTACAATTTTACAAATTAAA

3552/6881  
**FIGURE 3277**

MAATMFRATLRGWRTGVQRCGLRLLSQTQGPPDYPRFVESVDEYQFVERLLPATRIPDPPKHEHYPTPSGWQPP  
RDPPPNLPYFVRRSRMHNIPVYKDI THGNRQMTVIRKVEGDIWALQKDVEDFLSPLLGKTPVTQVNEVTGLRIK  
GYFDQELKAWLLEKGF

3553/6881

**FIGURE 3278**

GTCCAGGCAGGTGCAGGCGCCGCGGGGCCGGATCCTCCGCGCGGCCGAGTCCATCTCCTGGGAAATGGGGCGGAC  
AGTGTTTCCTTGACTGACTATTGTGAGCGCCCTCTCTCTCCGGCGGAGCGGAGACCATGGCCCCACTCAGGGCC  
CCCCGGCCCCGCTGGAATTCGGAGGGCCCTGGGCGCCGCGCTCTGCTACTGCTGCTGCCCGCCACCATGTTCC  
ACCTGCTCCTGGCGGCCCGTTCCGGCCCCGCGCGCTGCTGGGTCCACCCGCGTCCCTGCCGGGGCTGGAGGTGC  
TGTGGAGCCCACGGGCGCTGCTGCTGTGGCTCGCCTGGCTCGGCCTGCAGGCGGCGCTCTACCTACTGCCGGCGC  
GCAAGGTGGCCGAGGGGCAGGAATTGAAGGACAAGAGTCGCCTGCGCTATCCTATTAACGGCTTCAGGCCCTGG  
TGCTGACAGCCCTGTTGGTGGGGCTGGGGATGTCAGCGGGGCTGCCTCTGGGGGCGCTCCCGGAAATGCTCCTGC  
CCTTGGCGTTTGTGCCACCCCTACCGCTTTCATCTTCAGCCTCTTTCTCTACATGAAGGCGCAGGTAGCCCCAG  
TTTCGGCCCTGGCACCTGGGGGGAACCTCAGGCAATCCGATTTACGACTTTTTTCTGGGACGAGAGCTCAACCCCTC  
GTATCTGTTTCTTCGACTTCAAATATTTCTGTGAAGTGCAGCCCGGCCTCATCGGCTGGGTCTCATCAACCTGG  
CCCTGTTGATGAAGGAGGCAGAGCTTCGAGGCAGTCCCTCACTGGCCATGTGGCTGGTCAATGGCTTCCAGTTGC  
TCTACGTGGGTGATGCCCTCTGGCACGAGGAGGCCGTCCTCACCACCATGGATATCACACATGACGGGTTTGGCT  
TCATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTCACCTACAGCCTGCAGGCCAGTTCTGCTGCACCACC  
CGCAGCCCCTGGGGTTGCCCATGGCCTCTGTCATCTGCCTCATCAATGCTACTGGTTACTACATCTTCCGTGGGG  
CGAATTCAGAAAAACACTTTCGAAAGAATCCTTCTGACCCAGAGTGGCTGGGCTTGAGACCATCTCTACAG  
CCACAGGGCGGAAACTGCTGGTGTCTGGGTGGTGGGGTATGGTCCGCCATCCCAACTATCTTGGAGACCTCATCA  
TGGCTCTGGCTTGGTCCTTGCCCTGCGGGGTGTCACACCTGCTGCCCTACTTCTACCTCCTCTACTTCACCGCGC  
TGCTGGTGCACCGTGAGGCCCCGGATGAGCGGCAGTGCCTGCAGAAGTACGGCCTGGCCTGGCAGGAGTACTGCC  
GGCGTGTGCCTTACCGCATCATGCCCTACATCTACTGAAGCGGCTCCACCACCCAGGTGGGGGCATGTGCCAC  
TCATCCACCAGCACACCCAGGACCAGGAGCCTCGACACACTTGGGACTCAAGGGCTTGACCCCCACCCAGCCCTG  
AGGATGAACAACCTCAGAGAAGAGGTGGTTTAGAGCAAGGAAAAAATGAAACCAGTGACC

3554/6881  
**FIGURE 3279**

TTCCTTTCCAGCCTCACGCCCCTGGGCTGCAGTTGGAACGATGGCGGCGGCAGCTGCCGCCGGGCGCTAGCCCGGG  
GTCTGGACCTGGGGACTCCCCAGAAGGGCCCCGAGGGGGAGGCTCCGGAGCGTCGGCGGAAGGCGCACGGGATGCT  
GAAGCTTTACTACGGCCTCTCGGAAGGGGAGGCGGCGGGACGCCCCGCGGGGCCGACCCCTGGACCCGACTGA  
TCTGAACGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCGTAGAGAGTGCCCTCTGGCCGAGTTGAT  
GGACAGTGAGACGGACATGGTGGCGCAGATCCGGGCTCTAGACAGCGACATGCAGACCCTGGTCTATGAGAACTA  
CAACAAGTTCATCTCAGCCACAGACACCATCCGGAAGATGAAGAACGATTTCCGGAAGATGGAGGATGAGATGGA  
CCGGCTGGCCACCAACATGGCAGTGATCACCAGCTTCAGCGCTCGCATCAGCGCCACGCTGCAGGACCGCCACGA  
GCGCATACCAAGCTGGCAGGGGTCCACGCGCTGCTGCGGAAGCTGCAGTTCTCTTTGAGCTGCCCTCGCGCCT  
CACCAAGTTCGTGGAACCTGGGCGCCTATGGGCAGGCGGTGCGCTACCAGGGCCGCGCGCAGGCCGTGCTGCAGCA  
GTACCAACACCTGCCCTCGTTCCGCGCCATCCAGGACGACTGCCAGGTTCATCACGCCCCGCTGGCCAGCAGCT  
GCGGCAGCGCTTTAGGGAGGGCGGCTCAGGCGCCCCGGAGCAGGAGAGTGCTGGAGCTGCTGCTGGCCCTGGG  
CGAGCCTGCGGAGGAGCTGTGCGAGGAGTTCTTGGCGCACGCCCGCGGCCGCTGGAGAAGGAGCTGAGAACT  
GGAGGCCGAGCTGGGGCCCTACCTCCGGCTCCCGACGTGTTAGAGTTACCGACCATGGAGGCAGTGGCTTCGT  
GGGCGCCTCTGCCAGGTGGCGGCGGCTACCAGGAGCTGTTTGGGCCCAGGGCCAGCAGGTGCCGAGAAGCT  
GGCGGCCCTTCGCCCCGCGAGCTGGGCAGCCGCTATTTTGGCGTGGTGGAGCGGCGCTGGCGCAGGAGCAGGGTGG  
TGGTGACAACTACTGCTGGTGGCGGCGCTGGACCGCTTCCACCGCGCTTGGCGGCTCCCGGGGCCCTGCTGGC  
CGCTGCCGGGCTCGCAGACGCTGCCACGGAGATCGTGGAACGAGTGGCCCCGCGAGCGCCTGGGCCACCACTGCA  
GGGTCTCCGGCGGCGCTTCTGGGCTGCCTGACAGACGTCCGCCAGGCGCTGGCAGCACCTCGCGTGCTGGGAA  
GGAGGGCCCTGGCCTGGCCGAGTTGCTGGCCAAATGTGGCCAGCTCCATCCTGAGCCACATTAAGGCCTCTCTGGC  
AGCAGTGACCTTTTACCGCCAAAGAGGTGTCTTCTCCAACAGCCCTACTTCCGGGGTGAGTTCTGCAGTCA  
GGGTGTCCGTGAGGGCCCTCATCGTGGGCTTCTGCTCACTCTATGTGCCAGACGGCTCAGAGCTTCTGCAGACGCC  
TGGGGAGAAGGGGGGTGCCACACCACCTGCCCTGCTCCTGCTGCTCTCCCGCCTCTGCCTGGACTACGAGACGGC  
CACCATCTCTACATCCTCACTCTCACTGATGAACAGTTTCTGGTGCAGGATCAGTTCCCAGTGACGCCCGTGAG  
CACGCTGTGTGCAGAGGCCAGGGAAACGGCGCGGCGGCTGCTGACCCACTACGTGAAGGTGCAGGGCCTGGTCAT  
ATCACAGATGCTGCGCAAGAGCGTGGAGACTCGCGACTGGCTCAGCACTCTGGAGCCCCGGAATGTGCGGGCCGT  
CATGAAGCGGGTGGTGGAGGATACACCGCCATCGACGTGCAGGTGGGGCTCCTGTACGAAGAGGGTGTTCGCAA  
GGCCCAGAGCAGCGACTCCAGCAAGAGGACTTTCTCCGTGTACAGCAGCTCTCGGCAGCAGGGCCGCTACGCCCC  
CAGCTATACCCCAAGTGCCCCGATGGACACCAACCTCTTGAGCAATATCCAGAAGCTATTCTCTGAACGTATTGA  
TGTGTTTACGCCCTGTGGAGTTCAACAAGGTGTGCGGTGCTGACCGGCATCATCAAGATCAGCCTGAAGACGCTGCT  
GGAGTGTGTGCGGCTGCGCACCTTTGGGCGCTTCGGGCTGCAGCAGGTGCAAGTGGACTGCCACTTTCTGCAGCT  
CTACCTGTGGCGTTTGTGGCCGACGAAGAACTCGTGCACTTGCTGCTGGACGAAGTGGTGGCCTCTGCTGCCCT  
GCGCTGCCCAGACCCTGTGCCCATGGAGCCCAGTGTGGTTGAGGTTCATCTGCGAGCGCGGCTAGGCGCAGCCGCT  
GCCATGCACCGGTCTGTCCCTGCACCCATGGCACCCAGGATCTGGTCTCGGTGGTCTTCCCCGACAGGCAGGTG  
TCAGGACCGGCTAATAAACATGTGTGGCCTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3555/6881  
**FIGURE 3280**

MAAAAAAGPSPGSGPGDSPEGPEGEAPERERRKAHGMLKLYYGLSEGEAAGRPAGPDPLDPTDLNGAHFDPEVYLD  
KLRRECPLAQLMDSETDMVRQIRALDSMQTLVYENYNKFISATDTIRKMKNDFRKMEDEMDRLATNMAVITDFS  
ARISATLQDRHERITKLAGVHALLRKLQFLFELPSRLTKVELGAYGQAVRYQGRAQAVLQQYQHLP SFRAIQDD  
CQVITARLAQQLRQRFREGGSGAPEQAECVELLLLALGEPAEELCEEFLAHARGRLEKELRNLEAELGPSPPAPDV  
LEFTDHGGSGFVGGLCQVAAAYQELFAAQGPAGAEKLAAFARQLGSRYFALVERRLAQEQQGGDNSLLVRALDRF  
HRRLRAPGALLAAAGLADAATEIVERVARERLGHHLQGLRAAFLGCLTDVRQALAAPRVAGKEGPGLAELLANVA  
SSILSHIKASLAAVHLFTAKEVSFSNKP YFRGEFCSQGVREGLIVGFVHSMCQTAQSFCDSPGEKGGATPPALLL  
LLSRLCLDYETATISYILTLTDEQFLVQDQFPVTPVSTLCAEARETARRLLTHYVKVQGLVISQMLRKS VETRDW  
LSTLEPRNVRAVMKRVVEDTTAIDVQVGLLYEEGVRKAQSSDSSKRTFSVYSSSRQQGRYAPSYTPSAPMDTNLL  
SNIQKLF SERIDVFSPEFVNKVS VLTGIIKISLKTLLCEVRLRTFGRFGLQQVQVDCHFLQLYLWRFVADEELVH  
LLLDEVVASAALRCPDPVPMEPSVVEVICERG



3556/6881  
**FIGURE 3281**

GAGGGATAATCGGGGCGGCCGGGGCTGAAGGGAGAGGCGCAGGAGCCCTGGGGAGAGTGGTCCCTGCCCTTCCGC  
GCCTCGAGCCATCGCTACCGCCCTTCGGAACCAGTGCAGCGGCCGATCAGTAAACACAGAGACTGGGGATCGATC  
ATGGGGCTTTGTAAGTGCCCCAAGAGAAAGGTGACCAACCTGTTCTGCTTCGAACATCGGGTCAACGTCTGCGAG  
CACTGCCTGGTAGCCAATCAGCCAAGTGCATCGTCCAGTCTACCTGCAATGGCTCCAAGATAGCGACTACAAC  
CCCAATTGCCGCCTGTGCAACATAACCCCTGGCCAGCCGAGAGACGACCCGCCTTGTCTGCTATGATCTCTTTCAC  
TGGGCCTGCCTCAATGAACGTGCTGCCCAGCTACCCCGAAACACGGCACCTGCCGGCTATCAGTGCCCCAGCTGC  
AATGGCCCCATCTTCCCCCAACCAACCTGGCTGGCCCCGTGGCCTCCGCACTGAGAGAGAAGCTGGCCACAGTC  
AACTGGGCCCCGGGCAGGACTGGGCCTCCCTCTGATCGATGAGGTGGTGAGCCAGAGCCCGAGCCCTCAACACG  
TCTGACTTCTCTGACTGGTCTAGTTTTTAATGCCAGCAGTACCCCTGGACCAGAGGAGGTAGACAGCGCCTCTGCT  
GCCCCAGCCTTCTACAGCCAGGCCCCCGGCCCCAGCTTCCCCAGGCCGGCCCGAGCAGCACACAGTGATCCAC  
ATGGGCAATCCTGAGCCCTTGACTCACGCCCCCTAGGAAGGTGTATGATACGCGGGATGATGACCGGACACCAGGC  
CTCCATGGAGACTGTGACGATGACAAGTACCGACGTGCGCCGGCCTTGGGTGGCTGGCCCGGCTGCTAAGGAGC  
CGGGCTGGGTCTCGGAAGCGGCCGCTGACCCCTGCTCCAGCGGGCGGGGCTGCTGCTACTCTTGGGACTGCTGGGC  
TTCCTGGCCCTCCTTGCCCTCATGTCTCGCCTAGGCCGGGCCGAGCTGACAGCGATCCCAACCTGGACCCACTC  
ATGAACCCCTCACATCCGCGTGGGCCCCCTCCTGAGCCCCCTTGCTTGTGGCTAGGCCAGCCTAGGATGTGGGTTCT  
GTGGAGGAGAGGCGGGGTAATGGGGAGGCTGAGGGCACCTCTTCACTGCCCCTCTCCCTCAAGCCTAAGACACTA  
AGACCCAGACCCAAAGCCAAGTCCACCAGAGTGGCTGCAGGCCAGGCCTGGAGTCCCCGTGGGTCAAGCATTTG  
TCTTGACTTGCTTTCTCCCGGTCTCCAGCCTCCGACCCCTCGCCCCATGAAGGAGCTGGCAGGTGGAATAAA  
CAACAACTTTATTAAAAC

3557/6881  
**FIGURE 3282**

MGLCKCPKRKVTNLFCEHRVNVCEHCLVANHAKCIVQSYLQWLQSDYNPNCRLCNIPLASRETTTLVICYDLFH  
WACLNERAAQLPRNTAPAGYQCPSCNGPIFPPTNLGPVASALREKLATVNWARAGLGLPLIDEVVSPEPEPLNT  
SDFSDWSSFNASSTPGPEEVDSSASAAPAFYSQAPRPPASGRPEQHTVIHMGNPEPLTHAPRKVYDTRDDDRTPG  
LHGDCDDDKYRRRPALGWLARLLRSRAGSRKRPLTLLQAGLLLLLGLLGFLALLALMSRLGRAAADSDPNLDPL  
MNPHIRVGPS

3558/6881  
**FIGURE 3283**

TCAGCGAGTGGCCCTTCCCGGTTGGCGCGCGCCGCGGGCGGCGGCGCTGGAGGAGCTCGAGACGAGCAGCCTAAAGTTA  
TGCTCTGGGAGGCGAACGCGGTCGGGAGGAGCCGCTCAGCGCTCCGGGCCAAGGGCCCCATCTCTACTAAGCCTC  
TGC GGAGGTCCCAGCGAAATCAGGCTCTGAACTCCCGAGCATCTCCCTGAAATCTGGCCGAAGACACCCAGTG  
CGGCTGCAGTCAGAAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCAATCAC  
CTCGCAGGAGCCCTAGGATTTCTTTTTCTTGAGAAAAGAAAACGAGCCCCCTGGCAGGGAGCTTACTAAGGAGG  
ACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAGCACTCTGTGCCGAACCCTGAGGCCGAGTCCAGCT  
CCAAGGAAGGAGAGCTGGACGCCAGAGACTTGAAATGTCTAAGAAAGTCAGGCGTTTCTACAGCCGGCTGGAGA  
CCCTGGGCTCTGCCTCTACCTCCACCCAGGCCGCGGCTCTGCTTTGGCTTCGAGGGGCTGCTGGGGGCAGAAG  
ACTTGTCCGGAGTCTCGCCAGTGGTGTGCTCCAACTCACCGAGGTCCCAGGGTTTGTCAAAGCCCTGGGCCC  
CAGACATGACTCTCCCTGGAATCTCCCCACCACCCGAGAAAACAGAAACGTAAGAAGAAGAAAATGCCAGAGATCT  
TGAAAACGGAGCTGGATGAGTGGGCTGCGGCCATGAATGCCGAGTTTGAAGTGTCTGAGCAGTTTGATCTCCTGG  
TTGAATGAGATGCAGTGGGGGGTGACCTGGCCAGACTCTCCCTCTGTCTGTACATAGCCACCTCCCTGTGGA  
GAGGACACTTAGGGTCCCCCTCCCCTGGTCTTGTTACCTGTGTGTGTGCTGGTGTGCGCATGAGGACTGTCTGCC  
TTTGAGGGCTTGGGCAGCAGCGGCAGCCATCTTGTTTTAGGAAATGGGGCCGCTGCCAGCCACTCACTGGTG  
TCCTGTCTCTTGTGCTCTGTCTTCTATCTCCCCAAAGTACCATAGCCAGTTTCCAGATGGGCCACAGACTGG  
GGAGGAGAATCAGTGGCCAGCCAGAAGTTAAAGGGCTGAGGGTTGAGGTGAGAGGCACCTCTGCTCTTGTTGGG  
AGGGGTGGCTGCTTGGAATAAGGCCAGGGCTCTGCCAGCCTCGGCCTCTCCCTCCTGAGTTGCCTTCTGTTGGT  
GGCTTCTTCTTGAAACCACCTGTGTAAAGAGGTTTTAGTTCCGTGGGTTTTCCCTTTGATTCTGTAAATAGTC  
CCAGAGAGAATTCTGTGGCTGAGGGCAATTCTGTCTTGAGGAAGAAGCTGGACATTACAGCCTGTGGAGTCTGAG  
TTTTGAAGGATGTAGGGAGCCTTAGTTGGGTCTCAGACCATAAGTGTGTACTACACAGAAGCTGTGTTTTCTAGT  
TCTGGTCTGCTGTTGAGATGTTTGGTAAATGCCAGGTTGATAGGGCGCTGGCTGCTTGAGCAAGGGGTGCATTT  
CAGGGTGTGGCCACCAGGTGCTGTGAGTTTCTGTGGCTCATGGCCTCTGGGCTGGTCCCTTGCACAGGGCCCACG  
CTGGAGTCTTACCACTCTGCTGCAGGGGTGGAAGGTGGCCCTCTTGTACCCATACCCATTTCTTACAAAATAA  
GTTACACCGAGTCTACTTGGCCCTAGAAGAGAAAGTTGAAGAGTCCCAGACCTACTAGCATTTTGCAACTATGCT  
TGTAAGTCTCTCGGAAAGTTTCTCGCGTACCAGACAGCGCGGGGGCTGATAGCAATTTTAGTTTTTGGCCTCC  
CTATCCTCTCACATGAGAACACTGCCTGGATGCATCTCATGATCTCTGGAGAATTTCCCCATCTTTCTCTTCTTT  
CCATCGTGTGGATTCAATAGTGTGGATTTGAAGGCTGCCCTGCCCCGACTCTCCTGCCGACCCCTGGCCATTG  
TACCTTTTGATGTTTAGAAGTTCGTGGAAGTAGACGCTGAGGTGTGCAGAGGAGCTGGTGGAATAACAGAGAATGC  
CAGGGAAGATGAGTGTGGGTGAGGTACTTGGATGAAACGGTGCAGGCAGGCGGCCCTAATAAAACCCCTCTG  
CCAGTCTGGGAGTCCCAGGCCATCTGCTCAACGCTCTGTGGTTTGTGTGACACCTGCAAGCAAGCCCCCTGCTGGG  
GAACCTAGGTGTCTTGTAGCTGAACCGCACTGAAGAAGTCTTGTCTCTACTGGCTGATGCAGCAGAACTCTTGG  
GAAATGTCTTAGTCTGAGAAATCAGGAGTACCAGATGATGCAGAGTTGAGATCATCATTGCAAAGTTCTCTGT  
TCCTGAGGAACATAAATTTAAGGAAAAAATGGGATTTTGTTTTAGAGTTGGAAAAAAGCCTGATTAAAGAGTTTC  
TGCCTGTT

3559/6881

**FIGURE 3284**

CTCCGGGGCCCATGGGGCTCCTGACCATTCTGAAGAAGATGAAGCAGAAAGAGCGGGAGCTGCGACTGCTCATGC  
TTGGCCTGGACAATGCTGGAAAGACAACCATCCTGAAGAAGTTCAATGGGGAGGACATCGACACCATCTCCCCAA  
CGCTGGGCTTCAACATCAAGACCCTGGAGCACCGAGGATTCAAGCTGAACATCTGGGATGTGGGTGGCCAGAAGT  
CCCTGCGGTCTACTGGCGGAACACTTTGAGAGCACCGATGGCCTCATCTGGGTAGTGGACAGCGCAGACCGCC  
AGCGCATGCAGGACTGCCAGCGGGAGCTCCAGAGCCTGCTGGTGGAGGAGCGCCTGGCCGGAGCAACCCTCCTCA  
TCTTTGCTAATAAGCAGGACCTGCCTGGAGCACTGTCTCTAACGCCATCCGCGAGGCCCTGGAGCTGGACTCCA  
TCCGCAGCCACCACTGGTGCATCCAGGGCTGCAGCGCCGTCACCGGGGAGAACCTGCTGCCGGGCATCGACTGGC  
TCCTGGATGACATTTCCAGCCGCATTTTCACAGCTGACTGAACCACCTCCAGATGCCCCCACCCTAGCAGTCCAGG  
TCCCTCAACCTTCACCAAACACTACCCATGGGGGGTTGGGAGTCAGCCGGCCAAACTAACACTCCCCCTCCTCCA  
CCCCAGCCTGCTGCTGCTACTGCTGCCGCTGCTGCTCTGTGGCCACCCGGCTCCCATGGCGGGAGGCTGTGCCCT  
GGCTGTCTCTCTGGCTCCTGACCTGGCCTTTGGCTACCATACCAAGAAGAGAGGGCTGGGCGGGGAGGAGCTGCT  
ACTGCTGTACCGAGGCTGTGGGCCTCATCCTTCACTCAGTTGTGAAATAAACCGCTCCTTGCCCCGAAAAAAAA  
AA

3560/6881  
**FIGURE 3285**

MGLLTILKKMKQKERELRLMLGLDNAGKTTILKKFNGEDIDTISPTLGFNIKILEHRGFKLNIWDVGGQKSLRS  
YWRNYFESTDGLIWVVDSDRQRMQDCQRELQSLLEERLAGATLLIFANKQDLPGALSSNAIREALELDSIRSH  
HWCIQGCSAVTGENLLPGIDWLLDDISSRIFTAD

3561/6881  
**FIGURE 3286**

ATGAATGCAGCACTGAGCTCTGTTTGCCCTCTAAGCTTGTCCCCAGAAAAACAAGATATACCCTAAATATGCAC  
GATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTTTCCCTG  
GCAGCTTTCAGTGTCAATCAGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTCTGTCACCATCAGCTTCAGGATC  
TACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTAGACATT  
ACTCTGTCCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAACTCATT  
ATTCGTCTCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTATGTT  
GGTGTGTTTTTAACGGAATCACCTTCTAATTCTTGCTGAAGTGTCTATTTTCAGTGTCCCGATTGTCTATGAG  
AAGTACAAGGAGATGGGCCACTAA

3562/6881  
**FIGURE 3287**

GGCCTGAGGGCGCCGCACTCGACTGCTTCGAGGTGACGCTGAAATGCGAGGAAGGGGAGGACGAGGAGGAGGCCA  
TGGTGGTGGCCGTAATTCCGCGGCCCGAGCCGATGCTCAGAGTGACCCAACAGGAGAAGACCCACCGCCTAGAC  
CCAGCCCGCTAGAGGCAGGCAGTGATGGCTGTGAGGAGCCGAAGCAGCAGGTGTCTTGGGAGCAGGAGTTCTTG  
TGGGCAGCAGCCAGGAGGCAGCGGGCGGGCACTGTGCATGGTGTGTGGCGCTGAGATCCGGGCACCCCTCGGCCG  
ACACAGCTCGCTCGCACATCTTGAGCAGCACCCCTCACACCTTGGACCTGAGCCCTTCTGAGAAGAGCAATATCC  
TGGAGGCCTGGAGTGAAGGGGTGGCCCTCTTGCAAGACGTGAGAGCTGAGCAGCCGTCCCCACCCAACCTCAGACT  
CGGGCCAGGATGCCACCCAGACCCAGACGCCAACCCAGACGCTGCCAGAATGCCAGCCGAAATCGTCGTTCTCC  
TTGACTCTGAGGATAACCCATCCCTCCCTAAAAGGAGCAGGCCCAGGGGACTCCGCCCCCTCGAGCTTCCTGCTG  
TCCCTGCCACAGAGCCAGGAAATAAGAAGCCCCGTGGTCAGAGATGGAAGGAACCCCCAGGGGAAGAGCCAGTCA  
GAAAGAAAAGAGGCAGACCTATGACCAAAAACCTGGACCCTGACCCAGAGCCCCCATCGCCAGACTCGCCCCACGG  
AGACTTTCGAGCAGCACCAGCCGAGGTCCGACACTTCACTGACGGCAGCTTCCCCGCCGGCTTCGTCTTGACGCTCT  
TCTCCACACCCAGCTCAGGGGCCCAGACAGCAAGGACTCACCCAAGACAGGGAAGTGGCAGAAGGAGGCCTTC  
CCCGGGCGGAGAGCCCCCTCTCCAGCTCCCCCTCCGGGGCTCCGCGGGACACTGGATCTCCAGGTTATCCGCGTGC  
GGATGGAGGAGCCCCCAGCGGTCAGCCTCCTGCAAGACTGGTCCAGGCACCCCCAGGGCACCAAGCGTGTGGGAG  
CAGGTGACACCTCAGACTGGCCACAGTTCTGTCAGAATCCAGCACCCTGTGGCAGGGAAGCCGAAAAAGGGA  
ATGGAGTGTAATTCCTTGCTTTCCTGGGGAGGGAGGGAGGGATGAGGCAGCGTCCCCAGTGGCTTATAACTCAG  
AGCTGCCTGGCTCACCCACCTGGTGGAGAGAGTAGAAACAGGTGCCAGGGCAGGAGGGGGCTGGGGCAGCATCCA  
CTGTTATTCGGGGCACTGGAAAGTGTCTGTTCTCGCCAGGCCTGAGGTTCGGCGAGGGTGGCTGAGGCTGTTGT  
GCAGTAGGGCACTGGGCCTGTGGAGAACACCTACCCAGTCCTTCGCTGACCCCCACCTCTGTTTGTCCCCCATG  
ACCTCCTCCACCCCTCCCCCTGCTCCCCACCATTTCTCCCTTGGCACAGTGCCCTTACACAAGAGTGGTCATAAGGG  
GGTTTGAAGTGAAGTCCCACTACCTCGGGGGACACCTCTCCTCCCACTTGTTTCAGGCTTCTAAACCAGGAGGCCT  
CCATTACCTCTTCTGTGCCACCCCTGCAGAGGCCTGAAGCTGGGCCTGGGCACCCCATTCCTCCCGTTCTCAT  
TTACATCTGTTTTCTGTGTATATATACCTTGTGACAATAAATTATTTTTTTTATT

3563/6881  
**FIGURE 3288**

GCGCCCAGCCGCTGAACGGCGTGGGCAGGTGGGCGGTGGGGTTCCAGGGCGCCCCGAGGACAGGGGGCCCCGACT  
TCAGGGGAACCCCAACCCTGAGGGGCGTACATAGTAATCACGCCCCAGCCGCACCGGACCTTGCGCTCATCCCTT  
GCGTCCCCCACTTCTGCACAACTTTTCTGACGCCCTGGCTCGTGGGGGTCTGAGAGCGCTGGGGCTACCAGG  
TGGGCTCCACCCCGCCGACCTAGCCACGCTGACCTCCTGCCTCTCCTAACCTCAGTGGCGACCTCTCCAGGC  
CGGGCCGGGCTCGGCACTCGGAGCGAGTGGGCAACCACTGTGCTCTCCGAAGGCTCCTGCGCCCCCGGGGCA  
GCTGGGCGGGTAATGCCCTCAGTGATGGAGAAGCCGAGCGGGGCTCTGGGATCCTGTCCCGTAGCCGGGCCAA  
GACGGTGCCCAACGGCGGACAGCCCCACTCGGAGGATGACAGCAGCGAGGAGGAGCACTCGCACGTCCCTTCTGT  
GGCTGCAGACAGCATGATCCGCGTTGGAACCAATTACCAGGCCGTAATTCCGGAGTGCAAGCCTGAGAGCCCCG  
ACGCTACAGCAACAAGGAGCTGAAGGGGATGCTGGTGTGGTCAACCAACCACTGTGTGTGATGCCAAGCTTGA  
CAAGTACATTGCGATGGCCAAGGAGAAGCATGGCTACAACATTGAGCAGGCGCTGGGCATGCTTCTGTGGCATAA  
GCACGATGTGGAGAAGTCGCTGGCCGACCTGGCCAACCTCACCCCATTCCTGACGAGTGGACAGTAGAGGACAA  
GGTGCTGTTTGAACAGGCCCTTTGGCTTCCATGGCAAATGCTTCCAGCGGATCCAGCAGATGCTGCCTGACAAGTT  
GATTCACAGCCTGGTGAAATACTACTACTCTTGGAGAAGACCCGAGCCGAACCTAGTGTGATGGACAGACAGGC  
CCGGCGGCTGGGGGGCCGCAAGGACAAAGAAGACAGTGATGAGCTCGAAGAGGGTTCGAGGAGGCGTGAGTGAGGG  
AGAGCCCGATCCTGCAGATCCCAAGAGAGAGCCTCTACCTCTCGGCCCTGAATGCACGCCCCAGGCCCTGGGAA  
AAAGGAGGTCCAGGTGTCTCAGTACCGCCACCATCCCTTGCGAACC CGCGCTCGCCACCCAAGGGCATGTACCT  
GAGCCCTGAAGGCCCTACGGCAGTGTGAGGAAGCCCGGACCTTGCCAACCTCACGCTCCGAGGTCTTGACTCTCA  
GCTCATCTCCCTCAAGCGCCAGGTACAGAGCATGAAGCAGACGAACAGCAGCCTGCGCCAGGCCCTGGAGGGCGG  
TATTGATCCACTACGCCCCCGGAGGCCAACACCAAGTTCAACTCCCGCTGGACCACAGATGAGCAGCTTTTGGC  
TGTTCAAGCCATCCGTAGGTATGGCAAAGACTTTGGGGCTATTGCAGAGGTGATTGGGAACAAGACTCTGACCCA  
GGTGAAGACTTTCTTTGTGAGCTACCGGCGCCGCTTCAATCTGGAGGAGGTGCTGCAGGAATGGGAGGCTGAGCA  
GGATGGGGCCCCCTGGAGCCCCAGTCCCCATGGAGGAGGCTAGGAGAGGGGCTCCATTGCCAGCCCCAGCCCTAGA  
GGAAGATGATGAGGTCCAGATTACATCGGTCTCCACGTCCGTGCCCCGATCAGTGCCCCCTGCGCCACCACCCCC  
TCCACCTCCCACCTCGTGTCCCAGCCACCCCCGCTGCTGAGGCCACCTTTGCCACGGCTCCCACTCTGCTCCG  
ACAGCCACCCCCACTGCAGCAGGGCCGCTTCTCTCAGCCCCGGCTGGCCCCCAACAGCCCCCACCGCCTCTCAT  
CCGCCCCGCTCTGGCTGCCCCCGCCACAGCGCCCGCTGGCCCTCAGCCCCACCCACCTGATTGGAACCCC  
TCTGGAGCCCCCAGCACCTCACTCTGAGCCCTGACGTCTCCACCAACCACGGGCTCCAGGACCCCTTTGCTGG  
CCATCCCCAGGCATCTCTGGTGTCACTGAGGACAGAAGGGACTAGGGCTCTGGCGGGTCTTTGTAAGACCAGAG  
TTTCGGACAGCCAGCCCCGCCCTTTGGGTTCTGCATGTGTTCTTGGCAGCTGGGCCTGTCTCCTGGGGCCATGG  
CCGGGCTCAGGGGCCTTTGAGCTGGCCTGAGGGCACTTTCGCTTCTTGGCCGGTACTGGAATGGCTGTGTCTTAG  
TCTGCTGGGGCTTGGCCTCTGGGTCTGCCCTTTGTGTGTCCGGGGTAGTGACCTTAGCGTGGAGTGGGGAGAGG  
GCAGTTGGGTGTGCTGGCTGTCTCATTCTCTTTCCCTCTTTTAGCAATAAGTCTGGGGTGGGTGGGGAGGG  
AGGCTGCAGGGGGGGAGGTGGGCAGAGGGGCCTTACAGCAGCAGAGGCTGGAAGAGAAGCTCTGTCTTCAGGGC  
CAGCTGGGAAATGCTAAGGAGCTGAGGGTGCCCAACCAAGCCACCTTCCAGAACTTGGAGAAATGGGGGTGGG  
AACTTATGCAGACATGGATTTATTTTCAACATTTTTTAAAAATTAATAAATAAAATCTAA



3564/6881  
**FIGURE 3289**

CCTCGTGCCGCAGTTCTGCCACCGTCACTGAGAAGCTCAGCGGTAGCTTTTGGGAAGCAGGACGTTCTCACCAGG  
AGAGCGTCCTCTCGAGATTCTGCTCCCTCCATTGAGGGCGTTTGGGAGCCACCCCTTCATTTTTTAAAAAAGT  
ATTTCTCTGTGACCGACGGCCGGGGCCTTCTGACGGTCTGAGGTCTTGCTTGGGCCAGTCACCTCCTGTACGGT  
CCGCGGAGGGGGGAAGGATAAGAGGGCGAGGAGCTCATCGCTCGCCACCCCGTGGGCTTCTTGGGCGCAGGTCTG  
GAGCTGGGTGGGCGGGCTCCCCGGCCCCCTGGCTTGGGCGACCATGTCCGCATCCGCCAGCAGCTGGCGGAGGAG  
CTGCAGATCTTCGGCTAGACTGCGAGGAGGCTCTAATTGAGAAATTGGTAGAGCTTTGTGTTAGTATGGACAG  
AATGAGGAGGGAATGGTAGGCGAGCTTATAGCCTTCTGCACCAGCACACATAAAGTTGGCCTTACCTCAGAGATC  
CTGAACTCTTTTGAGCATGAGTTTCTGAGCAAAAGATTATCGAAAGCCAGGCATAGTACCTGCAAGGACAGTGGC  
CATGCAGGAGCTAGAGACATTGTTTCCATTCAAGAGCTAATTGAAGTGAAGAAGAAGAGGAAATCCTCTTGAAC  
TCTTACACCACACCTTCAAAGGGTTCTCAGAAGCGAGCTATCTTACCCAGAAACCCCTTAAACAAAAGGAGT  
GTGTCAACTCGTAGCCCCATCAGCTACTCTACCGTCAAGTTCTCTCCAAGTGCTACTCCCTCCAGAAATAC  
AACTCACGAAGTAACCGAGGAGAAGTGGTTACCTCCTTCGGCTTAGCACAGGGAGTATCTTGGTCTGGGAGAGGA  
GGAGCTGGAAACATCAGCCTGAAGGTCTTGGGATGTCCAGAGGCACTAACTGGGAGCTACAAATCCATGTTTCAG  
AAGCTCCCAGACATTGAGAAGTTCTGACCTGTAAGATAGAAGAACTTGGCAGCGAACTCAAGGAACATTACAAG  
ATTGAAGCTTTCCTCCTTTGCTAGCCCCAGCACAGGAGCCTGTCACTCTGCTGGGCCAGATTGGCTGTGATAGC  
AACGGGAAGCTGAACAACAAGTCAGTGATTCTCGAGGGAGACCGGGAACATTCTCGGGTGCTCAAATTCAGTG  
GATTTATCTGAGCTTAAGGAATATTCTCTGTTTCTTGGACAGGTTGTAATTATGGAAGGAATCAACACCACTGGT  
AGGAAACTTGTGTCACCAAACTCTACGAGGGTGTGCCACTTCCATTTTATCAGCCCACTGAAGAGGATGCAGAC  
TTTGAGCAAAGCATGGTCCTGGTTGCCTGTGGACCATAACCCACATCTGACAGCATCACGTATGACCCCTGCTT  
GACCTGATTGTGTCTATCAACCATGACCGCCAGATGTCTGCATCCTGTTTGGCCCTTTCTTGGATGCTAAGCAT  
GAACAGGTGGAGAATTGTCTACTGACAAGTCCATTGAAGACATTTTCAAGCAGTGTCTACGAACAATTATTGAA  
GGCACAAGAAGTCCGGCTCCACCTTGTCTTTGTCCCGTCAATTGAGAGATGTGCACCATGAGCCTGTGTACCCC  
CAGCCGCCTTTAGCTACTCCGATCTGTCTCGAGAGGACAAAAGCAAGTACAGTTTGTGTCCGAGCCCTGCAGC  
CTCTCCATAAACGGAGTGATCTTCGGCTTGACATCCACAGATCTGCTTTTCCACCTGGGGGCCGAGGAGATCAGT  
AGTTCTTCCGGAACCTTCAGACAGATTGAGCCGAATACTCAAGCACATCTTGACCCAGAGGAGCTACTACCCACTC  
TACCCGCCCAAGAAGACATGGCCATTGACTATGAGTCTGTTCTATGTTTACGCACAGCTGCCTGTACCCCAAGT  
GTCTCATATCCCGTCAGAGCTGAGGTACTTCGTGAAGGATGTCTCGGCTGTGTCTGTGTGAACCTGGGGCGC  
CTTACCAAAGGGCAGGTGGGAGGCACCTTCGCCCCACTCTACCTTAGGAGGCGGCGAGCGGACGGGGCAGAGAGG  
CAGAGCCCATGCATTGCTGTGTCAGGTCTGTCAGGATCTGAGGCTTCTGTCTCTGCTGTGTGTGGGCC  
CTTAAAGTCTTAGCCAAGAGCCAAGACATAGCCCTGTGACAAGGTGAACAGTTGGGTGGGAAAGGAGAGAGGAGC  
CAGCCAGGGAGGGGAGCTGCAGTGACCAGGCCAGCAGGGAGGACTTGTGCAGCCGGGCTGCCTCTGAGTGGT  
GCCTCTCCTGGAAGGAAGCTCTTGCTTCTCAGTCCATGCTCCGTGTCCAGAAGTAAGCCAGCTGTGGATCCCGCC  
CACTCAGAAAAGGCGAGAAGGCTTTGTGATTTTCTACATGAATCAACACAGAAACAACCTTTGGAGAAATTAA  
TTCTGAGTGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3565/6881  
**FIGURE 3290**

MSASAQQLAEELQIFGLDCEEALIEKLVELCVQYGQNEEGMVGELIAFCTSTHKVGLTSEILNSFEHEFLSKRLS  
KARHSTCKDSGHAGARDIVSIQELIEVEEEEEIILLNSYTTPSKGSQKRAISTPETPLTKRSVSTRSPHQLLSPSS  
FSPSATPSQKYNRSNRGEVVTSTFGLAQGVSWSGRGGAGNISLKVLCPEALTGSYKSMFQKLPDIREVLTCKIE  
ELGSELKEHYKIEAFTPLAPAQEPVTLTGQIGCDNGLNKNKSVILEGDREHSSGAQIPVDLSELKEYSLFPGQ  
VVIMEGINTTGRKLVATKLYEGVPLPFYQPTTEADFEQSMVLVACGPYTTSDSITYDPLLDLIAVINHDRPDVC  
ILFGPFLLDAKHEQVENCLLTSPFEDIFKQCLRTIIEGTRSSGSHLVFVPSLRDVHHEPVYPQPPFSYDLSREDK  
KQVQFVSEPCSLSINGVIFGLTSTDLLFHLGAEIISSSSGTSDRFSRILKHILTQRSYYPLYPPEQDMAIDYESF  
YVYAQLPVTDPVLIIPSELRYFVKDVLGCVNPGRLTKGQVGGTFARLYLRRPADGAERQSPCIAVQVVRI

3566/6881  
FIGURE 3291A

GGAATTCTCTGGGGCTTTGGGGAATTTAGTGCCTGGGTGAGCCAAGAAAATACTAATTAATAATAGTAAGTTGTT  
AGTGTTGGTTAAGTTGTTGCTTGGAAGTGAGAAGTTGCTTAGAAACTTTCCAAAGTGCTTAGAACTTTAAGTGCA  
AACAGACAACTAACAAACAAAAATTGTTTTGCTTTGCTACAAGGTGGGGAAGACTGAAGAAGTGTTAACTGAAA  
ACAGGTGACACAGAGTCACCAGTTTTCCGAGAACCAAGGGAGGGGTGTGTGATGCCATCTCACAGGCAGGGGAA  
ATGTCTTTACCAGCTTCCTCCTGGTGGCCAAGACAGCCTGTTTCAGAGGGTTGTTTGTGTTGGGGTGTGGGTGTT  
ATCAAGTGAATTAGTCACCTTGAAAGATGGCGTCAGACTTGCATACGCAGCAGATCAGCATCCTTCGCTGCCCT  
TAGCACTTAGGTGGTTGATTGAAACTGTGAAGGTGTGATTTTTTCAGGAGCTGGAAGTCTTAGAAAAGCCTTG  
TAAATGCCATATTGTGGGCTTTAACGTATTTAAGGGACCACTTAAGACGAGATTAGATGGGCTCTCTGGATT  
TGTTCTCATTTGTACAGGTGTCTTGTGATTGAAAATCATGAGCGAAGTGAAATGCATTGAATTTCAAGGGAA  
TTTAGTATGTAAATCGTGCTTAGAAACACATCTGTTGCTTTTCTGTGTTTGGTCGATATTAATAATGGCAAAA  
TTTTTGCCTATCTAGTATCTTCAAATTGTAGTCTTTGTAACAACCAAATAACCTTTGTGGTCACTGTAATAATTA  
ATATTTGGTAGACAGAATCCATGTACCTTTGCTAAGGTTAGAATGAATAATTTATTGTATTTTTAATTGAATGT  
TTGTGCTTTTTAAATGAGCCAAGACTAGAGGGGAACTATCACCTAAAATCAGTTTGAAAACAAGACCTAAAAA  
GGGAAGGGGATGGGGATTGTGGGAGAGAGTGGGCGAGGTGCCTTACTACATGTGTGATCTGAAAACCTGCTT  
GGTTCTGAGCTGCGTCTATTGAATTGGTAAAGTAATACCAATGGCTTTTTATCATTTCCTTCTCCCTTTAAGTT  
TCACCTGAAATTTTAAAAATCATGGTTATTTTTATCGTTGGGATCTTTCTGTCTTCTGGGTTCCATTTTTAAAT  
GTTTAAAAATATGTTGACATGGTAGTTCAAGTTCTTAACCAATGACTTGGGGATGATGCAACAATTACTGTCTGTT  
GGGATTTAGAGTGATTAGTCACGCATGTATGGGAAGTAGTCTCGGGTATGCTGTGTGAAATTGAACTGTAA  
AAGTAGATGGTTGAAAGTACTGGTATGTTGCTCTGTATGGTAAGAACTAATTCGTACGTACGTACATAATTA  
CTAATCACTTTCTTCCCTTTACAGCACAAATAAGTTTGAAGTTCTAAACTCATTAGAATTGTTGTATTGCTAT  
GTTACATTTCTCGACCCCTATCACATTGCCTTCATAACGACTTTGGATGTATCTTCATATTGTAGATTTAGGTCT  
AGATTTGCTAGCTCCAAGTAATTAAGGCCATGTAGGAGAGCATGGTAACCACAGATAGAAGTGGTATTATCCCAA  
GTGGTCTGCAGACTGCTGAGTGGGATGGGATCTGCTCTCTGTTGAGAGTTGGTAATCATTGGTTTGAAATGTGA  
TGAAACCACTCAAGCCAATGAAGGTGGGTGTGTAGGTGGGGAGTACTTTGCCATAATATTTTAAACATTACCTG  
GTTAGAGTTCTAAGTGGTACTTATTTTTGTTTGGTTAGGGGAAAGCCTGAATAAAAACAGAAATGGACACATAAT  
ATGCATATTCATAGTCTTTGGGAGGCTGGAATGTGCCTGGGATTGGGTCTAAGTGTATGCGTAATTCCTACCT  
CACTAAAGAATTTGCCTTGTTTTTTTCCCTTTTGGTGAGTGACTAAAACGTCTGGGCTTCCCTGTGTGCGTGCTAC  
AGTAAGCAAGCAGAGGCTGTGCAAAGGTGTGAGCAGGATCACGTGGAATCTGGAGGATACATCTTGGCTTGCAAA  
CTGCCCTCTGTCTCCTGGGTGGGACTGTTCTGTCTTGCACGTGCTGTTCTGTGTTACCTCTTGGGGTGTAAAGTTT  
TGCTTACAGGAGACAACTTTGGGCGTAGAATGGAAGCCACTGCCAGCCTCTGTGCTGAGAAGGAAGGTGCTTGT  
TTCAAAGGGAGCAGCAAGGGAGGCTTGTTCTACTCACCTGGGCCTGTTTGCCTGAGAAGGGGAGATAAGGGCTGA  
ACTGGGACTAGCCAGGGGGACCAACACAAATGGTGGGGATCATGACCTGAAGGATTCCTTCCCTCCCATGAGCT  
GCAGGGCTGGTTGCCGTCTTGAACCTGTGTCTTATTGCTGTGCCGTATATCTTGGTGACCCCTCCACGTGT  
ACACTACTGACAAACGGGTGGAGTGTGGGGAGAAGTCACTGTGCCGCCACCTAGTAAACCTTCTGTCTGTGCT  
CATGGCATCTCCAAGATGGGGCACTGCTGTGTGCAGAAATCCAGGGTCTCTTTCTGCTTGCAACTCCTTTCCCTG  
GATGCCCCAGAAACAATCCAGGCCCTCCTTTCTATCTTACCCCTTTGCTTTGCTTTTTACCCAGCACCTCTATA  
ACCGCCTTCTCTTCTTTTTCAGAACTCCTTGTTTCTCATCTGTTTTTTATGATTACAAAACCTCTTGCTTCCACCC  
TGGAAGATAACTGCTATAGATGCCTGTATGTAAATGGTGTCTCTCCAGCAACTGGCATGCTGAAGAAGAATTGA  
TTCACGGGGTATAAATGTTGGGGATTGGAAGTGGGGATGAAATGGCACTTGTTGATACAGGAGCAGAGAGGTGAG  
GCCGACTGCTGAAGACAGCTCGCCACCCTCCTTGCTCCACTCCAATCCAGGGGCTGGGGCCACATTCTTTGCCT  
TCATTTATCCTCAGATCAGGTGAGATCGACAGGAGGTGTTGATGGCAGTGCCAGCAATTATTGCTAATCCGTTTG  
CATCCTTATGCATAGATCTGAATTCAGACTTTGTGAATTTCCAGAGGTGTGGGTAATATAATAGAATTCAGTGAG  
TGGGCATGGCTGATCTTGTGCAATTTAAAGTTATGGGGCATAAGAATAGCAAAAGTTGAACCTCTTTTAAAG  
GAAAGTACCCTGAGAGCCAGTATTGGTTGAGGCTCTTCAAGTATGCCAGGTGGCAGCACTGAGAACCAGCAGGAA  
CGGCTGTGTTACAAAAGGAGATTGACTCAGCTGCCCTTGGTGCATCTGACTGACTATGACTGCTGAGAGATT  
CCAAGGACCCTTAATGCCAGGGCTAACCTCTCATGTGCAGTGAGACCTCTGGAGGAAGTGTATCCTCTGGCTT  
TGTTGGTACTCATTATGGTGCAGTGGGGCATGAAATGAAGACACCCAAATAGGCTTACAGATACGATATGTTT  
TAAATGTTGCTATTTAACAAAACATACTGACACTGTTTGAAATGGCAACAGGAAGATAGCAAAATGAATACTA

ACATTACGAAAAGATGAACAGGTACATGTTCCAAGGCAGGTGGCTGTGAACCTCCTCTGAGTGAAGGCATCCCT  
CCAGCACCTTTTCAGCCTGCTAGTTAGGACGACCCGCCGCCACCCTCCAGGACCTCCAGCCCTGCACTGCCTTTCC  
TCTCTTTTAAATAATTCTTCATTGAGTTCCTAATATGTAAAAAAGTTTACTGTAAAGTTTGCAAATAAGGA  
AATTTTTTTTAAAAGTCCTCAGTAATCTTACCAGTAACAATTGTTATGGGCACATTTGCTTTTGAAGATTTCTT  
TTGTATGCATGGGATAAGTACATTTTTAAACAAAAATGGGATTATGCCATAAATCTATTTTGTGACTTTAATAT  
ATAGTGAACACCTTTTTTAATGATGACAGGATGTTCCCTTGCATGGCTGTATCAATTTAAACAATCTTGTTCAA  
TGGGCATACAGGGTATTTTCTAGTTTTTTTTTCTCTTAGAAAAATAACTTGGCATGACTTTCTTGTAGCTCA  
GACTTTTTTCACGCTCTGTTGTTATCTCTTGGGAATGCTGAATACATACATTTTCGAGAAGGAAATGACTGTTAAAC  
TCTTAAGACTTCAGGTTCAATTGCTAAACTGCCAGCAGGGAGGGATTTTTTCAATTAGTGTTCTCACTGGTGA  
GGCAAACCTGATGCCTTCCCCTCTTCTCAGAACCCGCTTTATCACATTGAAAACCTTTGCTCCTCCGACGGATC  
GAGTCTGCTTTCCCTGTGGATGTGAGCATTGCTTTGTCTGCTGGTGACTGAACATCTCTACCATGTGTCAATTGG  
CCATTTGTGGTGTGTGTGTGTGTGCGT  
TCTATTGATTGTTTTGCAAAGCCATTTACATCTTAAGGATATTGATAATCTTTTGTATATTTGATGCAAATAT  
TTTTTCCAGTTTATAGGTTGCCTTTTAAATTTGTGTTTCAGGTAGATAAAAAGTTAAACGATTTTCTTAGGTTAG  
TTTATCACTGTGGTTTCTGAACTTGTATGTGTAGATCTTTTCCACCCCAAGAGTACATAAAATATTATCCATAC  
TTTCTTATGGAACCTGTATGGTTTCGTTTTTACATTTAAACCTTCTTCCCCTGGTGTGTGTGTGTGTGTGTGTGT  
GTTTGTGTGAGGAGGGGCATGGTGTCTCAGAACCCACCTCCTGTGGCCAGAGAGCCCTGTCTGTGAGGGTGGT  
TATCACAGTGGCAGGGTTCAATTTCAGAAAGCCTTGAGGGCAGGCTGATGTTTCTGAATGGGCCCTGGTTGTGT  
CTTGTCCCTGACTCTCCATTTCCCCTATCTGAGTGGATTTGGACCTAATAGGGCACTGGAGCTGGTTCGAATCCTG  
ACTGGACTACTTGGCAACTTTATGTCTGGGAGCAAGTTACTTAACCTCCCAAGCCTGTGTCTGTGAAATGCGGG  
TAAATGAATGTAGATGTTTGGCAGCAGTACTCCTTGTGTGAGCTCTCACAGTGAACCTCTCCTGCCTCTGCCCTCC  
TTCCCCGCTCCCCTGGTGCTAGCGTCAAGTCTAGCCACTTCTCCTGGGCCCTCTCCCTTTTCTGTGGCTGG  
CTGCCTGCCCGCTGGCAGCTGGACCTTTCACTGAACGGGAATCAGCATGTATATTCTGGTCTGGTCTGTTTCTAC  
ACTTAATTTGTTTTCCAGTAGTATTTCCCTGTACCGGCAGAGTTTACAAACACATTTGAAGAGGCTTTTTCTCAG  
GATTCCTAACCTTCCCAAAGAGTCCCATGGATGGGTTTCTAGAAGTCTATAAATGCTCTGAAATTGTATTTT  
CTGTGAAAAGCATAACTTTCACTGCTTGTTCGTGCTCAAAAAAGATCATGAATGAATGATTGCATGATTTTATG  
CCATTGTGCTTATACTAAAGGATATGTAGCCATCTCTTGAGCTGTAAACTGTTTTGACTACTTTAAATCGTGC  
AGCTGTGAGCATCTCTGTAAATTTAGTGTACATGTATCCCTGGAGTGGCATTGCCTCGGCAGTGAGCACTTA  
TGGTTTTATACTCTCTTACAGACTCAAATGACTCCAGAAAGCTACACTTCTGTGTGAGTATATGATATCCA  
TTCCCTACATAGCCACTAACATCAGGTTTTTACAATTTTATTTATTTCTTGCTACTTTAAGAAATTTTTGTGGT  
GAAATACATAATAAGAGTTGACTATCTGAATCATTTTTTAAGTATACATTTCAGTAGTGTTAAGTATGTCGCCAT  
TGTTGTACAACCAATCTCCAGAACTTTTTCACTTGTGCAAAACAACTCTGTACCCATTAAATAACATTAAACATT  
CCATTCCCTCCAGCCTCAGCAACCCCATTTCTACTTTCTGTTTCTGTGAGTTTGACTATTCCAAGCACTTCATATC  
AGTTAAATCATGAAGTATTTGTCTGTCTGTGACTGGCTTATTTCTGTGAGCACAGTGTCTCGAGATGCGTCTAT  
GTTGTAGCATATGTGAGAATTTCCCTTCTTTTTAAAAGATCCAAATAATATTCTATTTTATATCTTTTTTTTAT  
CCATTCAATCATTAGTGGACACTTGGGTTGCTTTTGGCTATTGTAATAATGGTGCTATGTACAAATATCTATAT  
TATTGTATTTACAAGTATAATGCTGTAATGTACACACATCTTTTGGATCTTACCTTCAGTTCTTTTGAGTATA  
TAGCCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTTAATTTATTGAGGAACCACTGTAGTTTTTCAT  
AGCAACTGCACCATTTTACGTTCTCACCAGAGTGCACAAGGGTTCAGAGTTCCACATCTCCCCAACACTTG  
TTATTTTCTGCTTTTTTTAGATTGCAGCCATCATAGTGGGTGTGAGGTGACATTTCAATGTGGTTTTGAGTTGCA  
TTTCCCTAATGAGGAGTGATGCTGAGCATCTTTTCATATGCTTACTGGTCATTTGTATGTTGTCTTTGAAAAAT  
GTCTATTCAAGTCCCTTGACTATTTTAAAAATTGGGTATTAGAGTTATCGTTGTTGTTGACTTGTAGGAGTTTC  
TTTCTATATTCTGGATATTAATCCCTATCAGATATATGATTGCAAATATCTTCTTATTCCATAAGGTTACT  
TTTTCACTTTGTTGATTGTGTTCTTTGATGTATAGAAGTTTTTAGTTTTGAAATAGTCTAATTTATCTGTTTTTA  
CTTTTGTGGTCTGTGCTTTTGGTGTCTATCCAAGAAATCCTTGCCAAATCCAACGTTATAAGGTACTTTTAAGG  
TATTTTAGTTGTCTTAGTCTATATTTCTGTACTCACCTTTCTTTATCCACTCACTAGTTGATGGGCATGTAGGTT  
GGTTCATATCTTTGCAATTCTGAATTGTGCTGTGATCAGGTGCTTTTTTAGTATAATGATTACTCTCCTTTGG  
GTAGATACCCAGTAGTGGGATTGCTGGATCGAATGGTTTTTATAATTTCTATTTTACCACAGTTTCTCTCTGCA

3568/6881  
FIGURE 3291C

TTTTTCCTCTTTGACCACTAACCATGTGAAATTCTCATATTGACCTTTATAATGATCATGAACTCTTAGTATCAT  
TGGGAAGGCCACATTGCCACTTATGATTGTAAACCTTATCCTCCATTTTCCTGTTATTGTTGGTGCAAAAAGC  
ACCTATTATACCAGGACTTTAAAAATCAGTCTGATAAGTCTTTGATAAGTCTAATAATAATAACTGATAAGTCCA  
TTGAATTTGCTTCTGATTACTTTTTCTTTAGTAGCTAAACATGTATGTACTCCTATGATTACAATGAACACTCCT  
CTCCATTAAATTAATTATTTACATTGATGAAATAGCAAAATGTTAATGACTAAATACTGTCTGGTTTTTTTCGT  
TCCAGGTCAGTCAATATTAACCTCTTATAAATTTCTTTTTTTCTTTATGTGTGTGTGTGTGTATTTTTTTTT  
TTTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATAGATGAATTCTACAGTAGTGAAGTCTGAG  
ATTTTACTGCACCGGTACCTGAGTAGTGTACATTGTACCAATATGTGGTTTTTTATACCTTGCCCCCTCTTA  
CCCTCCCCACTTTGAGTCTCTAGTGTCCATTATGTCACTCTGTATACCTTTTGTACCCATAAGTTAGCTCTCAC  
TTATAAGTGAGAACACACAGTATTTGGTTTTCCATTCTGAGTTGCTTCACTTAGAATAATATCCTCCAGCTCCA  
TCCAAATTGCTGCAAAAAAAAAAAAAACCACAAACATTATTTGTTCTTTTTTATTGCTAAGTCATATTCCATG  
GTGTAGAGATAACCACATTTTATTTATCCACTACTGGTTGATGGGTTGGTCCACATCTTTGCAATTGTGACTTG  
TACTGCCATCAAGTGTCTTTCTGGTATAATGACTTCTTTTCCTTTGGGTAGATACCCAGGAGTGGGATTGCTAGA  
TCAATGGTCTTTAACATTTCTCTCTGGATCTATTTCTGGAAATTTTAGGCTCCAGTTTTTGTGTGTGTGTGTTA  
ATAAATGCAATGGAATGTAATGATCATCACTTTTCATTATGCTTTAAATCTGGTAAATGGAGGCTAGAACACT  
CCTGTAAGGCAAGAATATTCTCTCTGTTGGAACCAATACACAGAAGTGGGTAAATCTCAATCTTAATCTTTGA  
TTCAGGACACAACATGGCTCTCTTTACTTGCTTCTTTAATGTTTTTTAATAATGTGGTAAGCATTCTGAAT  
CTCCTATCCAATACAAAACCTAGGACAATACAGACAGTAACCTCTATGGTTACAATGAACACTCCTCTCCACTTA  
AATTAATTATTTACTGATGAAATTGAAATAGCAAAATTTTAAATGACTAAATACTGTCTTTGATTTTTTGTTC  
AGGTCTGTCAATATTAACCTCTTATAATTTTCTTTTTTTCTTTATGTGTGTGTGTGTGTATATATATATAT  
ATTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATATATAGAGTTCTACAGTAGTGAAGTCTGAG  
ATTTTACTACACCTTCCACTTATGTGGTCCCACACCACCCGCCCTCCCTGCCGCCCTCTGCCACCCCTAGGCCA  
AGGTAATAATCATCCTGAATCCTGGGTTTATCTCTCACTTGCTTTCTTTTCATATAATTTTGCAAAAGAATCTGA  
TCTAAATGTGTTTTTTCAGAGTATATATTTATATTTAGCTGTTCTTAGAGAAAATTATTATTTTGCATGTAATC  
TTATGGAACATTCTCATTTAATACCATGGTAAGATTGAGCCCTTGCCAGGGGATAGTTTCAATTTAGTTTGTGTAC  
TGGATAGAGCTCATCATGTGACTATACCTCAGTTAGTTTATCAGTTCTCCCATCCATGGTGACTAGGTTGCCTCT  
CAGCCTCTCAACAACACTGTTTCTCAGTGTCTTGTAGAAGTGATATGTGGGTGTTTTCTCCTTACACAGAGTTG  
AAAGGTGACGACAACAACGTTGGCACTACCAATCCCCACCCCTCCAGAGGGGTAACCAAGTGTTACCAAGTTTGTCTG  
TGTTTCTGTCTACACCTCGCCTTATTCACCTCCATTGTATCTGAAAAACGTGTGTCATGGTTTTCTTTCTATAG  
AAGTGGTAAATGCTATTGTGTCTGTACATTATTGATTACTTTTTTTCATTTAACAGTAGGGAGATGCCTGGGA  
GTACACAGAGAACTGCCCTCATTGTTTTCAACTTCTGCACTGTATGTCTGTGAGTTTAGCCATTCTGCTGTAAAT  
GGAAAATTACAGTATTCTAATCTTTTGATATTACAAACAGTTCTGTGCGATCATCGTCATACACAACCCCTTGTG  
CACAATGCATGAGTGTCTCAGGGTAGGTACCAAGAAGTGAAATTCCTGGGTATAGGGCGTGAGTCCGACATT  
TTTCTCCATTCTGCCCTGTTGCCCTCCAGAGTGGGTGTCCAGCTTTGCATACCTAAGTATGAGAGTATCTGTGT  
TCATATCCTCTACGACGCTCCATATATGAAACTTAAGTTTCTGCTAGTTGCCATCTTTGATCTATCATGTATGCA  
GTGACCTACTAAGACTGTAATTGGTACAGTAGATTCTGTCTATCTGTGTGTAATTTAGCATTATGGGCTTAAT  
GCTGACAAGGCCCCAGGGTCCAAGACATATAATCATGTATAATTTTGTCAAGGTATAATTTTTTAAATTGCTTT  
TGTCATGTGTCTGTGGTGATGCCCCAACCAGTGCTCTGCACCCAGGTCACACTGTGGCTTTGTCTCTGTCTTAT  
GCCTGCATTGCAGCAACTGTCTGAAGAGACCAAAATTATGCAGATTTAGGTAAGTCCATGGCTAATGTTATTAT  
ATTATGTGCTATTGTAATGGATGGGGCTGTGGAGTGTATGAATTTATAAATCACTGGTCTGTGAATTAATAATCA  
AACACTATAGAAAAAGGCCATGTAGAAGATAAAAGTTCTCTATAATCCCGACCCCTAAGATAACTACTAATGA  
CAACTTCATTTATATTCCTTCAGACATTTTCTGGCTGTGGATGTACTAAAATGTATCCTATTATTCTCTGCCCTA  
AAATGGAATCATACAAGGTGTACTGTTATTTTATGGCTCTATAACATGTATATTGTACGTGTGGTATGGTCA  
TTTTAACCATTTTTCTAGTGATGGCTTTGAGGTTATTTGCAGTTTCCTAGCCATCTCAAAGTGTGCTGCGGGGAT  
CTCTTTTGCATCCCTCTGGGTGCAGAGCTGAGGCACCCAGAGGAGTGTCCAGAGGAGGCAGCATCTGTAGGTGT  
CTTACCTGCTCTGGCTCTTGGCACATCTGGTTGGTGACACTGTTTTGTGAGATGGGTTGAAAGCACGTGCTGCC  
AAAATAGAATAATGTTGGTCTCTCCTCATGTGCCGTGGAACTGGGGTAAACTGCGTAGTGGCTGCAGCTGCC  
GTCCATACCGGAATCGAGTATAACACGGTGCCTGGCTTAGCACAAAACAGTAGTGGGTCTGCAGGCCCCAGAGT

3569/6881  
**FIGURE 3291D**

CTAATTCCTGGTATTCTTTCCCCTACACAGATTAAATAAACCAAAAACAACTATTCTAGGAAAGCGTCTGTGAC  
ATTTGTAAAAAGTGGTATTTAATGATCTTTTATTCACCTTGCTGTTTTAGTTTGTGAAATCTTAAGTGGCATCCT  
GGTCTGGGAAGGAGTGCTGCTGCGCCTGCCCTCCGCTGGGCACAGCGTGGCTGCTTCAGGGGCTAAGCACACAC  
TTTCTGTCTTCTAAAGGGCCGCCACATGCCAGGAGCTCAGGTGTGAGCCCGGCTCTGGCTCTTACCTCATAGGGT  
CACTCATAGGGGCACAGGGAGCAGAACATTGTACACAGCGAGGCACCACCCGGCTTGGCATCTGCCTCGGTGGAC  
TTACTACCTCTAGAAGGAAATACCTGAGTTCCTCTGGCCTCAGCTCCTAGAGTGACTGGTGTGCTGTCCCTGTTA  
CTCTTCTGTCAAGGTGACAACTGTGTGACCCATCATCTGTGTGTCAAAGCAAGGCCCTGCCTGGGCCTCTGCTCC  
TGTGCTGACCCCAAAGGCAAATGCTTTGCTAGTTTCCTTCCAGTTAATTTACCTATGAATAGATGTGTGAAAC  
TGTTCAAAGCCATACCTGCACATGTTTGAACCTCAAACCCTGTGGGTGATTGAGTGGCATCTTTCTCTAACCCCC  
AGCCTCCCTTCCCACAGAGGCCACCGTCATGGCCAGTTGCTGCAGTTTCTTTCCAGAGAACCTGTGTATGTGTAA  
AGCTGTACAGGCGTGGGTACACCACACAGCCTGTCTTGCACTGTGGACTGTTGAGTTACTAGTACATCTAGGTAA  
GCACCGCATATCTGTATTGATGCTGCTTGGTCTTTTCAACATCTGTGTGGTAGCCGTGTTTGAATTACCCATT  
CCCTTTTTGGGGAACCATTAAGTTGTTTCAGCAATTTTTACTGTAGATAAGGCTATACCGCATATCTGTGTACAT  
GGGTTTTTATGTACATGGGCAAGTATATCTGTGAGAGAAAAGTTTCCTCAGGAGGAATTCTGGGCACAGCATGTG  
TAAATTTCTAAATATGATGGACACCCCCAGCTTCCACCTCAAGGAGGTTGGTCCCATTGACATTTCCCCACACCT  
TCACCCAGGCTGTGCCCTTAAACTTGTTATTTGTCAATGTGAGAAGTGGAATAAGTATTTAATTGTAGTTTGG  
ATTTGTATTTCTATTGGGTTGTATACTTACTGATTAATAATAAGAGCTCTTTACATATTAAGGAAATTAACCTT  
TTCAAATACATTCTATTTCTCACTAATCTTTAAGTTTTATTGTAATATTTTGCTCTTTAGTTTATATATATATG  
TATATATATATATATGTATATATATATATATACATATATATATACATATATATATA

3570/6881  
**FIGURE 3292**

MFGSSYSLLSSHSELSCLCPPSPPLVPSVRSSHFLLGSPFSVAGCLPAWRWTFHVTGISMYILVWSVSTLNFV  
SSSISLYRQSSQTHLKRLFLRILNLPKGSPMDGFLEVYKCSEIVFFCGKHNFHLLVRAQKRS

3571/6881  
**FIGURE 3293**

AGCCCCCATCCCCGCCCTCTCCCGCCCCTCCCTTGTCCCCGCCCTTCCCGCCCCAACTCAGGTTCTGCCCC  
ACCCCGCCCCAATTCACGTCTGCTCCGCCCCGACGTAGGCCCCGCCCTGGCCCCCGGGCCCCGCCCGCTCTGA  
CGCAGGCCCCGCCCTCTCCGCCCCGCCCGGCTCGGGCGGCCGGAGGACCCGGAGCTAAGCGCCCCGAACCCG  
CGGCGGCGGTGGGGACGATGTGGTTCTTTGCCCGGGACCCGGTCCGGGACTTCCGTTTCAGCTCATCCCGGAGC  
CCCCAGAGGGCGGCCTGCCCGGGCCCTGGGCCCTGCACCGCGGCCGCAAGAAGGCCACAGGCAGCCCCGTGTCCA  
TCTTCGTCTATGATGTGAAGCCTGGCGCGGAAGAGCAGACCCAGGTGGCCAAAGCTGCCTTCAAGCGCTTCAAAA  
CTCTACGGCACCCCAACATCCTGGCTTACATCGATGGACTGGAGACAGAAAAATGCCTCCACGTCTGTACAGAGG  
CTGTGACCCCGTTGGGAATATACCTCAAGGCGAGAGTGGAGGCTGGTGGCCTGAAGGAGCTGGAGATCTCCTGGG  
GGCTACACCAGATCGTGAAAGCCCTCAGCTTCCTGGTCAACGACTGCAGCCTCATCCACAACAATGTCTGCATGG  
CCGCCGTGTTTCGTGGACCGAGCTGGCGAGTGAAGCTTGGGGGCCCTGGACTACATGTATTTCGGCCAGGGCAACG  
GTGGGGGACCTCCCCGCAAGGGGATCCCCGAGCTTGAGCAGTATGACCCCCCGAGTTGGCTGACAGCAGTGGCA  
GAGTGGTCAGAGAGAAGTGGTCAGCAGACATGTGGCGCTTGGGCTGCCTCATTGGGAAGTCTTCAATGGGCCCC  
TACCTCGGGCAGCAGCCCTACGCAACCCCTGGGAAGATCCCCAAAACGCTGGTGGCCCATTAATGTGAGCTGGTGG  
GAGCAAAACCCCAAGGTGCGTCCCAACCCAGCCCGCTTCCTGCAGAAGTGC CGGGCACCTGGTGGCTTCATGAGCA  
ACCGCTTTGTAGAAACCAACCTCTTCCTGGAGGAGATTAGATCAAAGAGCCAGCCGAGAAGCAAAAATTCTTCC  
AGGAGCTGAGCAAGAGCCTGGACGCATTCCCTGAGGATTTCTGTCCGCACAAGGTGCTGCCCCAGCTGCTGACCG  
CCTTCGAGTTCGGCAATGTCTGGGGCCGTTGTCTCACGCCCTCTTCAAGGTGGGCAAGTTCTGAGCGCTGAGG  
AGTATCAGCAGAAGATCATCCCTGTGGTGGTCAAGATGTTCTCATCCACTGACCGGGCCATGCGCATCCGCCTCC  
TGCAGCAGATGGAGCAGTTTATCCAGTACCTTGACGAGCCAAAGTCAACACCCAGATCTTCCCCACGTCTGTAC  
ATGGCTTCCTGGACACCAACCCTGCCATCCGGGAGCAGACGGTCAAGTCCATGTGCTCCTGGCCCCAAAGCTGA  
ACGAGGCCAACCTCAATGTGGAGCTGATGAAGCACTTTGCACGGCTACAGGCCAAGGATGAACAGGGCCCCATCC  
GCTGCAACACCACAGTCTGCCTGGGCAAAATCGGCTCCTACCTCAGTGCTAGCACCAGACACAGGGTCTTTACCT  
CTGCCTTCAGCCGAGCCACTAGGGACCCGTTTGCACCGTCCCGGGTTCGCGGTGTCTGGGCTTTGCTGCCACCC  
ACAACCTCTACTCAATGAACGACTGTGCCCAGAAGATCCTGCCTGTGCTCTGCGGTCTCACTGTAGATCCTGAGA  
AATCCGTGCGAGACCAGGCCCTTCAAGGCCATTTCGGAGCTTCCTGTCCAAATTGGAGTCTGTGTGCGGAGGACCCGA  
CCCAGCTGGAGGAAGTGGAGAAGGATGTCCATGCAGCCTCCAGCCCTGGCATGGGAGGAGCCGCAGCTAGCTGGG  
CAGGCTGGGCCGTGACCGGGTCTCCTCACTCACCTCCAAGCTGATCCGTTCCGACCCAACCACTGCCCAACAG  
AAACCAACATTCCCCAAAGACCCACGCCTGAAGGCCACTGGGAGACGCAGGAGGAGGACAAGGACACAGCAGAGG  
ACAGCAGCACTGCTGACAGATGGGACGACGAAGACTGGGGCAGCCTGGAGCAGGAGGCCGAGTCTGTGCTGGCCC  
AGCAGGACGACTGGAGCACCGGGGGCCAAGTGAGCCGTGCTAGTCAGGTCAGCAACTCCGACCACAAATCCTCCA  
AATCCCCAGAGTCCGACTGGAGCAGCTGGGAAGCTGAGGGCTCCTGGGAACAGGGCTGGCAGGAGCCAAGCTCCC  
AGGAGCCACCTCCTGACGGTACACGGCTGGCCAGCGAGTATAACTGGGGTGGCCAGAGTCCAGCGACAAGGGCG  
ACCCCTTCGCTACCTGTCTGCACGTCCCAGCACCCAGCCGAGGCCAGACTCTTGGGGTGGAGACAACCTGGGAGG  
GCCTCGAGACTGACAGTCCGACAGGTCAAGGCTGAGCTGGCCCCGAAGAAGCGCGAGGAGCGCGCGGGGAGATGG  
AGGCCAAACGCGCCGAGAGGAAGGTGGCCAAGGGCCCCATGAAGCTGGGAGCCCGGAAGCTGGACTGAACCGTGG  
CGGTGGCCCTTCCCGGCTGCGGAGAGCCCGCCCCACAGATGTATTATTGTACAAACCATGTGAGCCCGGCCGGC  
CCAGCCAGGCCATCTCACGTGTACATAATCAGAGCCACAATAAATTCTATTTCAC



3572/6881  
**FIGURE 3294**

CAGAGACTGATGAGTGCCGACTGAACCAGAACATCTGTGGCCACGGAGAGTGCGTGCCGGGCCCCCTGACTACT  
CCTGCCACTGCAACCCCGGCTACCGGTCACATCCCCAGCACCGCTACTGCGTGGATGTGAACGAGTGCAGGAGCAG  
AGCCCTGTGGCCCGGGGAGGGGCATCTGCATGAACACGGCGGCTCCTACAATTGCCACTGCAACCGCGGCTACC  
GCCTGCACGTGGGCGCCGGGGGCGCTCGTGCGTGGACCTGAACGAATGCGCCAAGCCCCACCTGTGCGGCGACG  
GCGGCTTCTGCATCAACTTTCCCGGTCACTACAAGTGCAACTGCTACCCCGGCTACCGGCTCAAAGCCTCCCGGC  
CTCCTGTGTGCGAAGACATCGACGAGTGCCGGGACCCAAGCTCTTGCCCGGATGGCAAATGCGAGAACAAGCCCG  
GGAGCTTCAAGTGATCGCCTGTGAGCCTGGCTACCGCAGCCAGGGGGGCGGGGCTGTGCGGACGTGAACGAGT  
GCGCCGAGGGCAGCCTCTGCTCGCCTGGCTGGTGCGAGAACCTCCCGGGCTCCTTCCGCTGCACCTGTGCCAGG  
GCTACGCGCCCGCGCCCGACGGCCGAGTTGCTTGGATGTGGACGAGTGTGAGGCTGGGGACGTGTGTGACAATG  
GCATCTGCAGCAACACGCCAGGATCTTTCCAGTGTAGTGCCTCTCTGGCTACCATCTGTCCAGGGACCGGAGCC  
ACTGCGAGGACATTGATGAGTGTGACTTCCCTGCAGCCTGCATTGGGGGTGACTGCATCAATACCAATGGCTCCT  
ACAGATGTCTTTGCCCCAGGGGCATCGGCTGGTGGGTGGCAGGAAATGCCAAGACATAGATGAGTGCAGCCAGG  
ACCCGAGCCTGTGCCTTCCCATGGGGCCTGCAAGAACCTTCAGGGCTCCTATGTGTGTGTCTGCGATGAGGGCT  
TCACTCCACCCAGGACCAGCACGGTTGTGAGGAGTGGAGCAGCCCCACCACAAGAAGGAGTGCTACCTGAACT  
TCGATGACACAGTGTCTGCGACAGCGTATTGGCCACCAACGTGACCAGCAGGAGTGCTGCTGCTCTCTGGGGG  
CCGGCTGGGGCGACCACTGCGAAATCTACCCCTGCCAGTCTACAGCTCAGCCGAGTTCCACAGCCTCTGCCCAG  
ACGGAAAGGGCTACACCCAGGACAACAACATCGTCAACTACGGCATCCAGCCACCGTGACATCGACGAGTGCA  
TGTGTTCGGGTGCGAGATTTGCAAGGAGGGCAAGTCCGTGAACACGCAGCCTGGCTACGAGTGCTACTGCAAGC  
AGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGACGTGGACGAGTGCTTGGACGAGTCCAAGTCCCGGA  
ACGGAGTGTGTGAGAACACGCGCGGCGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGC  
GCCAGTGCCTGAGCCCGGAAGAGATGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCCGCTGCG  
TCAACCTGCCGGGCTCCTACCGCTGCGAGTGTGCCCCGCCCTGGGTGCCCGGGCCCTCCGGCCGCGATTGCCAGC  
TCCCCGAGAGCCCCGCGGAGCGTGCCCCGAGCGGCGCGACGTGTGCTGGAGCCAGCGCGGAGAGGACGGCATGT  
GCGCTGGCCCCCTGGCCGGGCTGCCCTCACCTTCGACGACTGCTGCTGCCGCCAGGGCCGCGGCTGGGGCGCCC  
AATGCCGACCGTGCCCGCCGCGCGGCGGGGTCCCATTGCCCGACATCGCAGAGCGAGAGCAATTCTTCTGGG  
ACACAAGCCCCCTGCTGTTGGGGAAGCCCCAAGAGATGAGGACAGTTCAGAGGAGGATTGAGACGAGTGTGCT  
GCGTGAGTGGCCGCTGCGTGCCGCGGCGGGGCGGCGCGCTGTGCGAGTGTCCCGGCGGCTTCCAGCTCGACGCT  
CCCGCGCCCGCTGCGTGGATATCGACGAGTGCCGAGAGCTGAACCAGCGCGGGCTGCTGTGCAAGAGCGAGCGCT  
GCGTGAACACCAGCGGCTCCTTCCGCTGCGTCTGCAAAGCCGGCTTCGCGCGCAGCCGCCGACGGGGCTGCG  
TTCCCCAGCGCCGCGCTGACGCCGCCGACGCCGCCCTCGGCCAGACCTCGGTGATCACTGAGGGATTTCGCG  
AGCTCGGCCTCACTTCTGCCCGACTTGTGGCTCGGACCCAGGGACCTTCAGGGCCCGCAGACCCTCCCGGCGCC  
TTGAGACCCGAGGCGCCCTACCGGCCCCCTCCCGGTTAGCGGGCGGTTGTAAGGTCTCCGGCGGGCGCTGCC  
TGCCCTTCTCCAGAGGGTGTTCCTAGAAACTGATAAATCAGATCGTGCTCTTTACCCCTGGCTTTCG

3573/6881  
**FIGURE 3295**

CTCCCAAAGCAGAATTGCAGCTGCCGCCGCCACCTCCAGGCCACTATGCGCCTGGGGCTGCCAGGAGCTT  
CAGGCCAAGTTGGCAGAGATCGGAGCTCCGATCCAGGGTAATCGCGAGGAGCTGGTGGAGCGGCTGCAGAGCTAC  
ACCCGCCAGACTGGCATCGTGCTGAATCGGCCGGTTTTGAGAGGGGAAGATGGGGACAAAGCCGCTCCACCTCCC  
ATGTCGGCACAGCTCCCTGGAATTCCCATGCCACCACCACCTTTGGGACTCCCCCTCTGCAGCCTCCTCCGCCA  
CCCCACCACCTCCACCAGGCCTTGGCCTTGGCTTTCTATGGCCACCACCAAATTTGGGGCCCCCGCTCCT  
CTCCGTGTGGGTGAGCCAGTGGCACTGTCAGAGGAGGAGCGGCTGAAGTTGGCTCAGCAGCAGGCGGCATTGCTG  
ATGCAGCAGGAGGAGCGTGCCAAGCAGCAGGGAGATCATTCGCTGAAGGAACATGAGCTCTTGGAGCAGCAGAAG  
CGGGCAGCTGTGTTACTGGAGCAGGAACGACAGCAGGAGATTGCCAAGATGGGCACCCAGTCCCTCGGCCCCCA  
CAAGACATGGGCCAGATTGGTGTGCGCACTCCTCTGGGTCTCGAGTAGCTGCTCCAGTGGGGCCAGTGGGGCCC  
ACTCCTACAGTTTTTGGCCATGGGAGCCCTGTTCGCCGGCCTCGTGGTCCCCACC GCCCCCTGGAGATGAGAAC  
AGAGAGATGGATGACCCCTCTGTGGGCCCAAGATCCCCCAGGCTTTGGAGAAGATCCTGCAGCTGAAGGAGAGC  
CGCCAGGAAGAGATGAATTCTCAGCAGGAGGAAGAGGAAATGGAACAGATGCTCGCTCGTCCCTGGGCCAGTCA  
GCGTCAGAGACTGAGGAGGACACAGTGTCCGTATCTAAAAAGGAGAAAAACCGGAAGCGTAGGAACCGAAAGAAG  
AAGAAAAAGCCCCAGCGGGTGCAGGGGTGTCTCTGAGAGCTCTGGGGACCGGGAGAAAGACTCAACCCGGTCC  
CGTGGCTCTGATTCCCCAGCAGCTGATGTTGAGATTGAGTATGTGACTGAAGAACCTGAAATTTACGAGCCCAAC  
TTTATCTTCTTAAGAGGATCTTTGAGGCTTTTAAGCTCACTGATGATGTGAAGAAGGAGAAAGAGAAAGAGCCA  
GAGAACTTGACAACTGGAGAACTCTGCAGCCCCCAAGAAGAAGGGATTTGAAGAGGAGCACAAGGACAGTGAT  
GATGACAGCAGTGATGACGAGCAGGAAAAGAAGCCAGAAGCCCCCAAGCTGTCCAAGAAGAAGTTGCCCGGAATG  
AACCGCTTCACTGTGGCTGAACCAAGCAGCTGGTGGCTCGGCCCGATGTCTGTGGAGATGCACGATGTGACAGCG  
CAGGACCCTAAGCTCTTGGTTACCTCAAGGCCACTCGGAACCTCTGTGCCTGTGCCACGCCACTGGTGTTTAAG  
CGCAAATACCTGCAGGGCAAACGGGGCATTGAGAAGCCCCCTTCGAGCTGCCAGACTTCATCAAACGCACAGGC  
ATCCAGGAGATGCGAGAGGCCCTGCAGGAGAAGGAAGAAGACAGAAGACCATGAAGTCAAAAATGCGAGAGAAAGTT  
CGGCCTAAGATGGGCAAATGACATCGACTACCAGAACTGCATGATGCCTTCTTCAAGTGGCAGACCAAGCCA  
AAGCTGACCATCCATGGGGACCTGTACTATGAGGGGAAGGAGTTCGAGACACGACTGAAGGAGAAGAAGCCAGGA  
GATCTGTCTGATGAGCTAAGGATTTCTTGGGGATGCCAGTAGGACCAAATGCCACAAGGTCCCTCCCCCATGG  
CTGATTGCCATGCAGCGATATGGACCACCCCATCGTATCCCAACCTGAAAATCCCTGGGCTGAACCTGCCCCATC  
CCTGAGAGCTGTTCTTTGGGTACCATGCTGGTGGCTGGGGCAAACCTCCAGTGGATGAGACTGGGAAACCGCTC  
TATGGGGACGTGTTTGAACCAATGCTGCTGAATTTAGACCAAGACTGAGGAAGAAGAGATTGATCGGACCCCT  
TGGGGGGAACCTGAACCATCTGATGAAGAATCCTCAGAAGAAGAGGAAGAGGAAGAAAGTGATGAAGACAAACCA  
GATGAGACAGGCTTTATTACCCCTGCAGACAGTGGCCTTATCACTCCTGGAGGCTTTTCATCAGTGCCTGTGGA  
ATGGAGACCCCTGAACCTCATTGAGCTGAGGAAGAAGAAGATTGAGGAGGCGATGGACGGAAGTGAGACACCTCAG  
CTCTTCACTGTGTTGCCAGAGAAGAGAACAGCCACTGTTGGAGGGGCCATGATGGGATCAACCCACATTTATGAC  
ATGTCCACGGTTATGAGCCGGAAGGGCCCGGCTCCTGAGCTGCAAGGTGTGGAAGTGGCGCTGGCGCCTGAAGAG  
TTGGAGCTGGATCCTATGGCCATGACCCAGAAGTATGAGGAGCATGTGCGGGAGCAGCAGGCTCAAGTAGAGAAG  
GAGGACTTCAGTGACATGGTGGCTGAGCAGCTGCCAAACAGAAGCAAAAAAACGGAAAGCTCAGCCCCAGGAC  
AGCCGTGGGGGAGCAAGAAATATAAGGAGTTCAAGTTTTAGGTCCCCTCACACTAGCCCTTTTTTTGGCCCTAC  
GTCTGGATGCCTGGGCTTCACACAAGAACCACCTCTCCCGAGTTCCCAAGGACTTGTCATTTTCATGTTCTTATT  
TTAGACCTGTTTTGTAAATAAAGCTGTTTTCCAAGGAAAGAGATGAAAAAAAAAAAAAAAAAAAAA

3574/6881  
**FIGURE 3296**

MAPGAAQELQAKLAEIGAPIQGNREELVERLQSYTRQTGIVLNRPVLRGEDGDKAAPPPMSAQLPGIPMPPPLG  
LPPLQPPPPPPPPGLGLGFPMHPPNLGPPPLRVGEPVALSEERLKLAAQQQAALLMQQEERAKQQGDHSLK  
EHELLEQQKRAAVLLEQERQQEIAKMGTVPVRPPQDMGQIGVRTPLGPRVAAPVGPVGPPTPTVLPMGAPVPRRG  
PPPPPGDENREMDDPVSGPKIPQALEKILQLKESRQEEMNSQQEEEEMETDARSSLGQSASETEEDTVSVSKKEK  
NRKRRNRKKKKKPQRVRGVSSSESSGDREKDSRSGSDSPAADVEIEYVTEPEIYEPNFIFFKRIFEAFKLTD  
VKKEKEKEPEKLDKLENSAAPKKKGFEHHKDSDDSSDDEQEKKEAPKLSKKKLRRMNRTVVELKQLVARPD  
VVMHDTVTAQDPKLLVHLKATRNSVPVPRHWCFFKRKYLGKRGIEKPPFELPDFIKRTGIQEMREALQEKEEQKT  
MKSKMREKVRPKMGKIDIDYQKLHDAFFKWQTKPKLTIHGDLIYEGKEFETRLKEKKPGDLSDELRLSLGMPVGP  
NAHKVPPPWLIAMQRYGPPPSYPNLKIPGLNSPIPESCSFGYHAGGWGKPPVDETGKPLYGDVFGTNAAEFQTKT  
EEEEIDRTPWGELEPSDEESSEEEEEESDEDKPDETGFIPTADSGLITPGGFSSVPAGMETPELIELRKKKIEE  
AMDGSETPQLFTVLPEKRTATVGGAMMGSTHIYDMSTVMSRKGPAPELQGEVALAPEELELDPAMTQKYEEHV  
REQQAQVEKEDFSDMVAEHAQKQKKRKAQPQDSRGGSKKYKEFKF

3575/6881  
**FIGURE 3297**

GGAGTTTCGCCGCCGCGAGTCTTCGCCACCATGCCGCCCTACACCGTGGTCTATTTCCCAGTTCCGAGGCCGCTGCG  
CGGCCCTGCGCATGCTGCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTGACCGTGGAGACGTGGCAGG  
AGGGCTCACTCAAAGCCTCCTGCCTATACGGGCAGCTCCCCAAGTTCCAGGACGGAGACCTCACCCCTGTACCAGT  
CCAATACCATCCTGCGTCACCTGGGCCGCACCCCTTGGGCTCTATGGGAAGGACCAGCAGGAGGCAGCCCTGGTGG  
ACATGGTGAATGACGGCGTGGAGGACCTCCGCTGCAAATACATCTCCCTCATCTACACCAACTATGAGGCGGGCA  
AGGATGACTATGTGAAGGCACTGCCCGGGCAACTGAAGCCTTTTGAGACCGTGTGTCCCAGAACCAGGGAGGCA  
AGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTGCTGATCCATGAGGTCC  
TAGCCCTGGCTGCCTGGATGCGTTCCTCTCAGCATATGTGGGGCGCCTCAGCGCCCGGCCAAGCTCA  
AGGCCTTCCTGGCCTCCCCTGAGTACGTGAACCTCCCCATCAATGGCAACGGGAAACAGTGAGGGGTGGGGGGAC  
TCTGAGCGGGAGGCAGAGTTGCCTTCCTTCTCCAGGACCAATAAAATTTCTAAGAGAGCT

3576/6881  
**FIGURE 3298**

MPPYTVVYFPVRGRCAALRMLLADQGQSWKEEVTVETWQEGSLKASCLYGQLPKFQDGLTLYQSNTILRHLGR  
TLGLYGKDQQEAALVDMVNDGVEDLRCKYISLIYTNYEAGKDDYVKALPGQLKPFETLLSQNGGKTFIVGDQIS  
FADYNLLDILLIHEVLAPGCLDAFPLLSAYVGRLSARPKLKAFLASPEYVNLPINGNGKQ

3577/6881  
**FIGURE 3299**

ATCGCGCCAGTTCCTCAGCCTCAGTGCTATGAAGGTGACAGCGTGAGGTGACCCATCTGGCCCGCCGCGATGCTG  
GCAACACGGCGGCTGCTCGGCTGGTCGCTTCCCGCGCGGGTATCTGTGCGTTTCAGCGGCGACACGACAGCACCC  
AAGAAAACCTCATTGGCTCGCTGAAGGATGAAGACCGGATTTTCACCAACCTGTACGGCCGCCATGACTGGAGG  
CTGAAAGGTTCCCTGAGTCGAGGTGACTGGTACAAGACAAAGGAGATCCTGCTGAAGGGGGCCGACTGGATCCTG  
GGCGAGATCAAGACATCGGGTTTGAGGGGCGCTGGAGGCGCTGGCTTCCCCACTGGCCTCAAGTGGAGCTTCATG  
AATAAGCCCTCAGATGGCAGGCCCAAGTATCTGGTGGTGAACGCAGACGAGGGGGAGCCGGGCACCTGCAAGGAC  
CGGGAGATCTTACGCCATGATCCTCACAAGCTGCTGGAAGGCTGCCTGGTGGGGGGCCGGGCCATGGGCGCCCGC  
GCTGCCTATATCTACATCCGAGGGGAATTCTACAATGAGGCCTCCAATCTGCAGGTGGCCATCCGAGAGGCCTAT  
GAGGCAGGTCTGATTGGCAAGAATGCTTGTGGCTCTGGCTATGATTTTGACGTGTTGTGGTGC GCGGGGCTGGG  
GCCTACATCTGTGGAGAGGAGACAGCGCTCATCGAGTCCATTGAGGGCAAGCAGGGCAAGCCCCGCCTGAAGCCC  
CCCTTCCCCGAGACGTGGGAGTGTTTGGCTGCCCCACAACCTGTGGCCAACGTGGAGACAGTGGCAGTGTCCCCC  
ACAATCTGCCCGCTGGAGGTACCTGGTTTGTGGCTTTGGCAGAGAACGCAACTCAGGCACCAAACCTATTCAAC  
ATCTCTGGCCATGTCAACCACCTTGCACTGTGGAGGAGGAGATGTCTGTGCCCTTGAAAGAAGTATTGAGAAG  
CATGCTGGGGGTGTACGGGCGGCTGGGACAACCTCCTTGCTGTGATCCCTGGCGGCTCGTCTACCCCACTGATC  
CCCAAGTCTGTGTGTGAGACGGTGTGATGGACTTCGATGCGCTGGTGCAGGCACAGACAGGCCTGGGCACAGCT  
GCGGTGATCGTCATGGACCGCTCGACGGACATCGTGAAAGCCATCGCCCGCCTCATTGAGTTCTATAAGCACGAG  
AGCTGTGGCCAGTGTACCCCATGCCGTGAGGGTGTGGACTGGATGAACAAGGTGATGGCACGTTTCGTGAGGGGG  
GATGCCCGGCCGGCCGAGATCGACTCCCTGTGGGAGATCAGCAAGCAGATAGAAGGCCATACGATTGTGCTCTG  
GGTGACGGGGCCGCTGGCCTGTGCAGGGTCTGATCCGCCACTTTCGGCCGGAGCTCGAGGAGCGGATGCAGCGG  
TTTGCCCAGCAGCATCAGGCCCGGCAGGCTGCCTCTTAGCCCCACCACCTGGCCTGCTGTCCTGCGTCTATCCAT  
GTGGAATGCTGGACAATAAAGCGAGTGCTGCCACCCCTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3578/6881  
**FIGURE 3300**

MLATRLLGWSLPARVSVRFSGDTTAPKKTSFGSLKDEDRIFTNLYGRHDWRLKGSLSRGDWYKTKEILLKGPDW  
ILGEIKTSGLRGRGGAGFPTGLKWSFMNKPSDGRPKYLVVNADEGEFGTCKDREILRHDPHKLLEGCLVGGRAMG  
ARAAIYIIRGEFYNEASNQVAIREAYEAGLIGNACSGYDFDVFVVRGAGAYICGEETALIESIEGKQKPR  
KPPFPADVGVFGCPTTVANVETVAVSPTICRRGGTWFAFGGRERNSTKLFNISGHVNHPCTVEEEMSVPLKELI  
EKHAGGVTTGGWDLAVIPGGSSTPLIPKSVCEVLMDFDALVQAQTGLGTAIVMDRSTDIVKAIARLIEFYK  
HESCGQCTPCREGVDWMNKVMARFVRGDARPAEIDSLWEISKQIEGHTICALGDGAAPVQGLIRHFRPELEERM  
QRFAQQHQARQAAS

3579/6881  
**FIGURE 3301**

GGCACGAGGGCGCGCAAGGCACCGGTGGCAGCGGCGACGGCAGCTGCGACAGCAACCCCTGCTGGGCCGAAACTG  
GGCAGAGCGGAGCAGACGTCTGAAGCAGCGCGAGTGAGGCGCGAGGGTAGCGCCCGCGCCCGGGAAGACCCCTCG  
GGCGAACC GGCGAGCCAGCCCGGGTCCCGTTCCCAAGGCCCCGCCTCTAGGGCCTGGGGACTAATCGGATTG  
AGAGCGCGCCGGCCCGGGCGGAACTCGCCAATTGCGGAGGGCGGTGGCCACCGCCCAATCCGGAGCAGACAGG  
TGCGAGGTCCGGAAGGCGGAGGCCAATCGGCGGCGGTTGCGACCTGCTGGGGCAGGTCTCGGCCAATAAGGAGGC  
TCGAGTGACATCTTCGCGCACCAATCGGGAGTGAGGGAGCATTCTGCCCCGCTCGCCCTTCCGGCCAGACCTCTA  
TTTACCAGGGGCGTGCGAGCCCGCTTGCCAATCAGAGCGCGGCTGAGCGGCCCCGAGCCAACCCCGAGGAGCGG  
CCGGCTGGCGTCCGCCGCGCCAGGAGTTGGGGATGTCCTACAAACCCATCGCCCTGCTCCCAGCAGCACCCCT  
GGCTCCAGCACCCCTGGGCCGGGCACCCCGGTCCCTACAGGAAGCGTCCCGTCGCCGTGGGGCTCAGTGCCAGGA  
GCCGGCGCTCCTTTAGACCGCTGTTTAACGACTTTGGACCGCTTCCATGGGCTACGTGCAGGCGATGAAGCCA  
CCCGGCGCCAGGGCTCCCAGAGCACCTACACGGACCTGCTGTCTAGTCATAGAGGAGATGGGCAAAGAGATCCGG  
CCTACCTATGCTGGCAGCAAGAGCGCCATGGAGCGCCTGAAGAGAGGTATCATCCATGCCCCGGGCCCTAGTCAGA  
GAGTGCTTGGCAGAGACAGAGCGGAACGCGCGCACGTAACAGGAAGCGCCTCGGCCTCAGCGTCTGGACCTATCC  
GGCCACTGCAGAGCACCCGCTTCTCCCTGGCCTTCATCCCGAGTTGCACTAACCATCCTGGGCTTCCTGTCTGT  
GTCCCTTGGTGGGTCCCTCCAGGAACCAAGGAGTGCCCTCCAGGTGGCAGCACTAAGGACACCCCCCACAAAC  
AAGAGTTAGCAGCGAGGTCCCATGAGTCCCACCCATGACCTGCCGACAGTGTTGCCACCGGAACTTTGTGGC  
CCCTACCGCTCAGCCCTTCCAGCACTTCTCCACTTTGTCCCGAGCCTCCTTCTCCCCAGCAGGGGCACAGGC  
CTGGCACCTCCCTGCCTTGTGTCTGAGCCATAGTACTCTTTTATCTGTGTGTCTTTTGCTAAATATGCCCTTT  
TTATATTAATAAAAGATGATTTGGAGTTGTGCTCTCAAAAAAAAAAAAAAAAAAAAAA



3580/6881  
**FIGURE 3302**

MSYKPIAPAPSSTPGSSTPGPGTPVPTGSPVSPSGSVPGAGAPFRPLFNDFGPPSMGYVQAMKPPGAQGSQSTYT  
DLLSVIEEMGKEIRPTYAGSKSAMERLKRGIHARALVRECLAETERNART

3581/6881

**FIGURE 3303A**

[illegible]

3582/6881  
**FIGURE 3303B**

CCAGACCTACATCGTGGGCCGTGCCGTGCGGAAGCTACAGGCGCAGTGCCAGTTCCTGTCAGACGGCTATGTGGC  
CCACCTGGGCCAGCTGGAAGCGGGCTCGCACTCGCATGCCTCCTCGGGACCCCCGAGAGCTGCCTTGGGCAAGAG  
CAGCTATGGTGTGGCTGCCCCGTGGACTTCCTGCGCAAACAGAGCCAGCTGCTTCGCTCGAGGGGCCCCAGCCA  
GGCGGAGCGTGAGGGCCCGGGAACACCACCCACCACCCTGGCACGGGGCAAAGCACGGAGCATCAGCCTGAAGCT  
GGACAGCGAGGAGTGAGGGCCACACCAGCCTGGACCTGGGTTATTTATTGACACACCCAAGGGGCCCCGAGGGGCT  
GCGTGTGGGAGGCTGGGGACCCAGACTTTTGGCCCCAGCGCTGGCCCCCAGCCCCACACCTATATCTCCGTG  
TGCTCCTCGGTGTTACTTCCCTTTCATATGAGGGGACCCAGCGCCGGGGGAGGGAGGAGGGCGTGGGCATGGGC  
GCAGAGGCTTTTCCAGTGIGTATAAATCCATGAAAATAAACGCCACCTGCACCCC

3583/6881  
**FIGURE 3304**

GC GCGCCTAGTCCCGGGCTGGCGGGAGTGCAGTTCTGAGTCCCGCCCGCGTGCGCGGAGCGGGGCAGCCAGCA  
GCGGAGGCGCGGCGCGCAGCACACCCGGGGACC**ATCGG**CTCCATGTTCCGGAGCGAGGAGGTGGCCCTGGTCCAG  
CTCTTTCTGCCCACAGCGGCTGCCTACACCTGCGTGAGTCGGCTGGGCGAGCTGGGCCTCGTGAGATTTCAGAGAC  
CTCAACGCCTCGGTGAGCGCCTTCCAGAGACGCTTTGTGGTTGATGTTTCGGCGCTGTGAGGAGCTGGAGAAGACC  
TTCACCTTCTGTCAGGAGGAGGTGCGCGGGCTGGGCTGGTCTGCCCGCCAAAGGGGAGGCTGCCGGCACCC  
CCACCCCGGGACCTGCTGCGCATCCAGGAGGAGACGGAGCGCTGGCCCAGGAGCTGCGGGATGTGCGGGGCAAC  
CAGCAGGCCCTGCGGGCCAGCTGCACCAGCTGCAGCTCCACGCCCGCTGCTACGCCAGGGCCATGAACCTCAG  
CTGGCAGCGGCCACACAGATGGGGCTCAGAGAGGACGCCCTGCTCCAGGCCCCGGGGGCGCCAGCAGGAC  
CTGAGGGTCAACTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAGCGCTGCTCTGGAGGGCC  
TGCCGCGGCTTCTCATTTGCCAGCTTCAGGGAGCTGGAGCAGCCGCTGGAGCACCCCGTGACGGGCGAGCCAGCC  
ACGTGGATGACCTTCTCATCTCCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGACTGCTTC  
CACTGCCACGTCTTCCCGTTTCTGACAGCAGGAGGAGGCCCGCTCGGGGCCCTGCAGCAGCTGCAACAGCAGAGC  
CAGGAGCTGCAGGAGTCTCGGGGAGACAGAGCGGTTCTGAGCCAGGTGCTAGGCCGGGTGCTGCAGCTGCTG  
CCGCCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACCAAGTGCAGCGTGAGCACCACG  
CACAAGTGCTCATTGCCGAGGCCTGGTGCTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGGACAGC  
TCGATGGAGGAGGGAGTGAGTGCCGTGGCTCACCGCATCCCTGCCGGGACATGCCCCCACACTCATCCGCACC  
AACCCTTCACGGCCAGCTTCAGGGCATCGTGGATGCCCTACGGCGTGGGCCGCTACCAGGAGGTCAACCCCGCT  
CCCTACACCATCATCACCTTCCCTTCTGTTTGCTGTGATGTTTCGGGGATGTGGGCCACGGGTGCTCATGTTT  
CTCTTCGCCCTGGCCATGGTCCTTGGGAGAACCGACCGGCTGTGAAGGCCGCGCAGAACGAGATCTGGCAGACT  
TTCTTCAGGGGCCGCTACCTGCTCTGCTTATGGGCCTGTTCTCCATCTACACCGGCTTCATCTACAACGAGTG  
TTCAGTCGCGCCACCAGCATCTTCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACCAAGTCTGGCTGGAGTGAT  
GCATTCTGGCCAGCACACGATGCTTACCCTGGATCCCAACGTCACCGGTGCTTCTCTGGGACCTACCCCTTT  
GGCATCGATCCTATTTGGAGCCTGGCTGCCAACCACTTGAGCTTCTCAACTCCTTCAAGATGAAGATGTCCGTC  
ATCCTGGGCGTGTGTCACATGGCCTTTGGGGTGGTCCTCGGAGTCTTCAACCACGTGCACTTTGGCCAGAGGCAC  
CGGCTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCTGCTGGGACTCTTCGGTTACCTCGTGTTCTTAGTCATC  
TACAAGTGGCTGTGTGCTGCTGGGCTGCCAGGGCCGCTCGGGCCCCAGCATCCTCATCCACTTCATCAACATGTTT  
CTCTTCTCCACAGCCCCAGCAACAGGCTGCTTACCCCGGCGAGGAGGTGGTCCAGGCCACGCTGGTGGTCTG  
GCCTTGGCCATGGTGCCCATCTGCTGCTTGGCACACCCCTGCACCTGCTGCACCGCCACCGCCGCCGCTGCGG  
AGGAGGCCCGCTGACCGACAGGAGGAAAACAAGGCCGGGTTGCTGGACCTGCCTGACGCATCTGTGAATGGCTGG  
AGCTCCGATGAGGAAAAGGCAGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCTCCGAGGTGCTCATG  
CACCAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCCTACCTGCGCCTGTGGGCC  
CTGAGCCTGGCCACGCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCTGGGCCGG  
GAGGTGGGCGTGGCGGCTGTGGTGCTGGTCCCATCTTTGCCGCTTTGCCGTGATGACCGTGGCTATCCTGCTG  
GTGATGGAGGACTCTCAGCCTTCTGCACGCCCTGCGGCTGCACTGGGTGGAATTCCAGAACAAGTTCTACTCA  
GGCACGGGCTACAAGCTGAGTCCCTTACCTTCGCTGCCACAGATGACT**AGG**GGCCCACTGCAGGTCTGCCAGAC  
CTCCTTCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGCAGTGAAAAAAAAAAAAAAAAAAAA

3584/6881  
**FIGURE 3305**

MGSMFRSEEVALVQLFLPTAAAYTCVSR LGELGLVEFRDLNASVSAFQRRFVVDVRRCEELEKTFTFLQEEVRRAGLVLP  
PPPKGRLPAPPPRDLRIQEETERLAQELRDVRGNQQALRAQLHQLQLHAAVLRQGHEPQLAAAHDTGASE  
RTPLLQAPGGPHQDLRVNFVAGAVEPHKAPALERLLWRACRGFLIASFRELEQPLEHPVTGEFATWMTFLISYWG  
EQIGQKIRKITDCFHCHVFPPFLQOEEARLGALQQLQQSQELQEVLGETERFLSQVLGRVLQLLPPGQVQVHKMK  
AVYLALNQCSVSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGVSAVAHRIPCRDMPPTLIRTNRTASFQGIV  
DAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHLLMFLFALAMVLAENRPVKAAQNEIWQTFFRGRYLLLLM  
GLFSIYTGFIIYNECFSRATSIFPSGWSVAAMANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGIDPIWSLAAN  
HLSFLNSFKMKMSVILGVVHMAFGVVLGVFNVHVFHGQRHRLLETLPELTFLGLFGYLVFLVIYKWLCVWAARA  
ASAPSILIHFINMFLFSHSPSNRLLYPRQEVVQATLVVLALAMVPILLGTP LHLLHRHRRRLRRRPADRQEENK  
AGLLDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAIHTIEFCLGCVSNTASYLRLWALSLAHAQLSEV  
LWAMVMRIGLGLGREVGVAAVVLVPIFAAFVMTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGTGYKLSPFTF  
AATDD

3585/6881  
**FIGURE 3306**

GGACGCCCCCTGCTCCAGGCCCCCGGGGGGCCGACCAGGACCTGAGGGTCAAGTGAGTGAGGGATGACCTCATGC  
CCTTTCTGGCCAGCCCAGAACCCCTGGCCAGTCGCTGGGCTGGGCCAGGCTGAGCTCCGACTCCTTGTCAGTGC  
TCTCCCCAGGCTGGCCCCGCCCTCCTCCTTCAGGCCCCGAACTTCCCACAGTCCCAAGCCCTAGCCCTAGGGGGTT  
CTCCTCTTCTGGTCTGCCCCGGGAGGCCTCCTGCCTTCCCCTGTGGGCAGGGCCAGTGTGCCCAATTGCCCCGATT  
GCCCCGTGCTGGGCAGGGTCTGCCCCGGGGGCCCTGGTGGGGGAGGCAGGGCAGGAGGTTGGAGCAGCCCTGCCCA  
GCCCCGTGGCCGCCAGCTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAGCGCTGCTCTGGA  
GGGCTGCGCGGCTTCTCATTGCCAGCTTCAGGGAGCTGGAGCAGCCGCTGGAGCACCCCGTGACGGGCGAGC  
CAGCCACGTGGATGACCTTCTCATCTCCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGACT  
GCTTCCACTGCCACGTCTTCCCGTTTCTGCAGCAGGAGGAGGCCCGCTCGGGGCCCTGCAGCAGCTGCAACAGC  
AGAGCCAGGAGCTGCAGGAGGTCTCGGGGAGACAGAGCGGTTCTGAGCCAGGTGCTAGGCCGGGTGCTGCAGC  
TGCTGCCGCCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACCAAGTGCAGCGTGAGCA  
CCACGCACAAGTGCCCTCATTGCCGAGGCCTGGTGTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGG  
ACAGCTCGATGGAGGAGGGAGTGAGTGCCGTGGCTACCCGCATCCCTGCCGGGACATGCCCCCACACTCATCC  
GCACCAACCGCTTCAGGCCAGCTTCAGGGCATCGTGGATGCCCTACGGCGTGGGCCGCTACCAGGAGGTCAACC  
CCGCTCCCTACACCATCATCACCTTCCCCCTTCTGTTTGTGTGATGTTGCGGGATGTGGGCCACGGGTGCTCA  
TGTTCTCTTCGCCCTGGCCATGGTCTTGGCGAGAACCGACCGGCTGTGAAGGCCGCGAGAACGAGATCTGGC  
AGACTTTCTTCAGGGGCCGTACCTGCTCCTGCTTATGGGCTGTTCCTCATCTACACCGGCTTCATCTACAACG  
AGTGCTTCAGTCGCGCCACCAGCACTTCCCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACCAAGTCTGGCTGGA  
GTGATGCATTCTGGCCCAGCACACGATGCTTACCCTGGATCCCAACGTCACCGGTGTCTTCTGGGACCTACC  
CCTTTGGCATCGATCTTATTTGGAGCCTGGCTGCCAACCCTTGAGCTTCTCAACTCCTTCAAGATGAAGATGT  
CCGTCATCTGGGCGTCGTGCACATGGCCTTTGGGGTGGTCTCGGAGTCTTCAACCACGTGCACTTTGGCCAGA  
GGCACCGGCTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCTGCTGGGACTCTTCGGTTACCTCGTGTTCCTAG  
TCATCTACAAGTGGCTGTGTGTCTGGGCTGCCAGGGCCGCTCGGCCCCAGCATCCTCATCCACTTCATCAACA  
TGTTCTCTTCTCCCACAGCCCCAGCAACAGGCTGCTTACCCCCGGCAGGAGGTGGTCCAGGCCACGCTGGTGG  
TCCTGGCCTTGGCCATGGTGCCCATCTGCTGCTTGGCACACCCCTGCACCTGCTGCACCGCCACCGCCGCCGCC  
TGCGGAGGAGGCCCGCTGACCGACAGGAGGAAAACAAGGCCGGGTTGCTGGACCTGCCTGACGCATCTGTGAATG  
GCTGGAGCTCCGATGAGGAAAAGGCAGGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCCTCCGAGGTGC  
TCATGCACCAAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCTACCTGCGCCTGT  
GGGCCCTGAGCCTGGCCCACGCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCCTGG  
GCCGGGAGGTGGGCGTGGCGGCTGTGGTGTGCTGCTTCCCATCTTTGCCGCTTTGCCGTGATGACCGTGGCTATCC  
TGCTGGTGATGGAGGACTCTCAGCCTTCTGACGCCCTGCGGCTGCACTGGGTGGAATTCAGAACAAAGTTCT  
ACTCAGGCACGGGCTACAAGCTGAGTCCCTTACCTTCGTGCCACAGATGACTAGGGGCCCACTGCAGGTCTGTC  
CAGACCTCCTTCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGCAGTGAAAAAAAAAAAAAA  
AAAAA

3586/6881  
**FIGURE 3307**

MTFLISYWGEQIGQKIRKITDCFHCHVFPFLQQEEARLGALQQLQQSQELQEVLGETERFLSQVLGRVLQLLPP  
GQVQVHKMKAVYLALNQCSVSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGVS AVAHRIPCRDMPPTLIRTNR  
FTASFQGI VDAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHLLMFLFALAMVLAENRPAVKAAQNEIWQTFF  
RGRYLLLLMGLFSIYTGFIYNECFSRATSIFPSGWSVAAMANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGI  
DPIWSLAANHLSFLNSFKMKMSVILGVVHMAFGVVLGVFNHVFHGQRHRLLETLPELTFLLGLFGYLVFLVIYK  
WLCVWAARAASAPSILIHFINMFLFSHSPSNRLLYPRQEVVQATLVVLALAMVPILLGTPLHLLHRHRRRLRRR  
PADRQEENKAGLLDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAIHTIEFCLGCVSNTASYLRLWALS  
LAHAQLSEVLWAMVMRIGLGLGREVGVAAVVLVPIFAAFVMTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGT  
GYKLSPTTFAATDD

3587/6881  
**FIGURE 3308**

CGGCCGAGGCTGCGGCCATGGCAGCATCTTCCCTGACGGTCACCTTAGGGCGGCTGGCGTCCGCGTGCAGCCACA  
GCATCCTGAGACCTTCGGGGCCCGGAGCAGCCTCCCTTTGGTCTGCTTCTCGAAGGTTCAATTCACAGAGCACTT  
CATATCTACCAGGATATGTTCCCTAAAACATCCCTGAGTTCACCACCTTGCCAGAAGTTGTTCTGCCAGACCCAG  
TTGAGGAGACCAGACACCATGCAGAGGTCGTGAAGAAGGTGAATGAGATGATCGTCACGGGGCAGTATGGCAGGC  
TCTTTGCCGTGGTGCACTTTGCCAGCCGCCAGTGAAGGTGACCTCTGAAGACCTGATCTTAATTGGAAATGAAC  
TAGACCTTGCCTGTGGAGAGAGAATTCGACTGGAGAAGGTCTGCTGGTTGGGGCAGACAACTTCACGCTGCTTG  
GCAAGCCACTCCTCGGGTTAATTGGCTGTGAAGTGCTGGGCTTTGTCTGGGGCTCCAGGGCTGGACATGCAGACAGT  
GGTCACAGTGCAATTAGGCCAGAAAGGATCTTGTTTCGAGTAGAAGCCACAGTCATTGAAAAGACAGAATCATGGC  
CAAGAATCATTATGAGATTCAGGAAAAGGAAAACTTCAAGAAGAAAAGAATCGTCACGACCCCGCAGACTGTCC  
TCCGATAAACAGCATTGAGATTGCTCCGTGTTTGTGTGATTACCGAGTTAATACTTACAAAAGGATAAAAATA  
AACTCCTGCTTCCCAAGG



3588/6881  
**FIGURE 3309**

MAASSLTVTLGRLASACSHSILRPSGPGAASLWSASRRFNSQSTSYLPGYVPKTSLSPPWPEVVLDPVEETRH  
HAEVVKKVNEMIVTGQYGRLEFAVVHFASRQWKVTSEDLILIGNELDLACGERIRLEKVLLVGADNFTLLGKPLL

3589/6881  
**FIGURE 3310**

GGCGCAGAAGCGGGACGTCGGCTTCTAGGGGCCAGGCCGGCGGGCGATGGCCTCGGCAGCTGTGGAGAGCTT  
CGTGACCAAGCAACTGGACCTGCTGGAGCTTGAGAGAGACGCGGAGGTGGAGGAGCGCAGGTCTTGGCAGGAGAA  
CATCTCTCTGAAAGAGCTCCAGAGCCGAGGCGTGTGTTTGTCTGAAGCTGCAGGTATCCAGCCAGCGCACTGGGCT  
GTACGGACGGCTGCTGGTCACCTTTGAGCCAGGCGATACGGGTCCGCGGCAGCTCTTCCAGTAACAGCTTTAC  
TTCTGGTGATATCGTGGGCCTGTACGATGCTGCTAATGAGGGCAGTCAGCTGGCCACTGGGATCTTGACCCGGGT  
CACCCAGAAGTCGGTCACGGTGGCCTTTGATGAGTCCCACGATTTCAGTTGAGCTTGACCCGAGAGAATTCCTA  
CAGACTGTTAAACTTGGCAATGATGTCACTTACAGGCGACTGAAAAAGCCCTGATTGCTCTAAAGAAGTATCA  
TTCTGGCCAGCCTCCTCACTCATAGAAGTGCTCTTTGGCAGATCTGCTCCAGTCTGCCAGTGAAATACACCC  
GCTGACATTCTTCAACACCTGCCTGGACACCTCCAGAAAGAAGCGGTTTCATTGCGCTGTCTCAGAAAGAACT  
TGCCATCATCCATGGACCTCCTGGCACTGGGAAAACACGACTGTGGTTGAGATCATTCTTCAAGCTGTGAAACA  
AGGCTTAAAGGTTCTGTGCTGCGCCCCCTCCAACATCGCCGTGGACAATCTGGTGGAGCGCCTGGCTCTGTGTAA  
GCAGCGGATTCTGCGCCTGGGACACCTGCCCCCTCCTGGAGTCCATTGAGCAGCACTCCCTGGATGCGGTTTT  
AGCGCGGAGCGACAGTGGCCAGATTGTTGCAGATATCAGGAAGGACATCGACCAGGTCTTTGTAAAAACAAAA  
GACCCAGGATAAGAGAGAGAAAAGTAATTTTCGAAATGAAATTAAGCTGTTAAGAAAAGAACTGAAGGAGAGGGA  
AGAAGCAGCTATGCTCGAGAGCCTCACTTCGGCAAACGTGGTCTTGCAACAAACACAGGTGCGTCTGCCGATGG  
CCCCCTGAAGTTGCTGCCCGAGAGCTACTTCGACGTGGTGGTCATTGACGAGTGTGCCAGGCCCTCGAGGCGAG  
CTGCTGGATCCCCCTGCTGAAGGCCAGAAAGTGCATCCTGGCGGGCGATCACAAGCAGCTGCCCCCACCACAGT  
CTCTCACAAGGCTGCGCTGGCAGGACTGTCACTAGCCTGATGGAACGCTGGCTGAGGAGTACGGCGCGAGGGT  
GGTGGCGACACTGACGGTGCAGTACCGCATGCACCAGGCTATCATGCGCTGGGCCTCAGACACCATGTACCTTGG  
GCAGCTCACAGCCCACTCTTCCGTGGCAAGGCACCTCCTGAGGGACCTCCAGGTGTGGCTGCCACAGAAGAGAC  
GGGTGTGCCCTGCTCTTGGTGGACACCGCCGGCTGCGGGCTGTTTGAAGCTGGAGGAGGAGGACGAACAGTCGAA  
AGGGAACCTGGCGAAGTCCGCTCGTCAAGTTTGACATCCAGGCTCTGGTGGACGCTGGTGTTCAGCCCCGTA  
CATTGCTGTGGTCTCGCCATAACAACCTCCAGGTGGACCTGCTCAGACAGAGCCTTGTGCACAGGCACCTGAGCT  
TGAAATCAAGTCTGTGATGGCTTCCAAGGCCGAGAGAAGGAGGCCGTGATACTGTCTTCGTGAGATCCAACAG  
GAAAGGTGAAGTTGGTTTTCTTGCTGAGGACCGGAGGATCAACGTGGCTGTACCCGTGCCCGACGCCACGTGGC  
GGTCATCTGTGACTCCCGTACTGTCAACAACCATGCATTTTTGAAGACCTGGTGGAGTATTTACACAGCATGG  
GGAAGTACGCACGGCCTTTGAGTATCTTGACGATATTGTCCAGAAAACATTCCCATGAGAACTCCAGGGTTT  
CAGCCACGCTGCCACCAAGCCCCAGGGACCTGCTACGTCCACCAGGACCGGAAGCCAGCGGCAGGAGGGAGGCCA  
GGAGGCTGCAGACCTGCCAGACAGGGCCGGAAGAGCCGGCTGGGAAGTCTCTGGCCTCTGAAGCTCCATCTCA  
GCCCAGCCTCAACGGAGGCAGCCCAGAGGGAGTGAGAGCCAAGATGGCGTGGACCACTTCCGGGCCATGATAGT  
GGAGTTTCATGGCCAGCAAGAAGATGCAGTTGGAGTTTCCCTCCTTCCCTCAATTCCACGACAGGCTGCGGGTCCA  
CCAAATAGCCGAGGAGCACGGGCTGAGGCACGACAGTTCCGGGGAAGGGAAGAGGAGGTTCACTGTGAGCAA  
GAGGGCCCCGCGACCCGAGCAGCCTGGGACCCCCAGCAGGGACCGGTGGCCAGCCCTCTCCAGCCAGTGCC  
CCCTACCCCTGCGCAGACAGAGCAGCCTCCCAGGGAGCAGCGTGGCCAGACCAGCCTGATCTGAGGACGCTGCA  
CCTGGAGAGACTGCAGAGGGTCAGGAGCGCGCAGGGGCAGCCCGCCAGCAAGGAGCAGCAGGCCTCAGGGCAGCA  
GAAACTTCCAGAAAAGAAAAAGAAAAAGCCAAAGGACATCCGGCCACAGATCTGCCCAGGAGGAGGACTTTGA  
GGCCCTGGTTTTCTGCCGCCGTTAAGGCTGATAACACCTGCGGCTTTGCCAAGTGCACAGCCGGCGTCACAACCT  
GGGCCAGTTCTGCCAGCTCTGCAGCCGCCCTACTGCCTCAGCCACCACCTGCCCGAGATCCATGGCTGCGGTGA  
GAGGGCTCGCGCCCATGCCCGGCAGAGAATCAGCCGGGAAGGGGTCTCTATGCCGGCAGCGGGACCAAGAACGG  
ATCCCTGGACCCAGCCAAGAGGGGCCAGCTGCAGAGGAGGCTGGATAAGAAGCTGAGTGAGCTCAGCAACCAGAG  
GACCAGCCGGAGGAAGGAGAGGGGGACGTGACCGGCCGCATCCTTGACGCCCCGCGGAGCTCTCTCCATGGTAG  
CCCAGGGCGCTGGCAGACCATGCTCCGCTCCACCAGGGCCACAGAGGAGCGGAGGGGCTATGGGGGAGGAGCG  
GAGGGCCCTGTTGGGGAAGGTTGGGTTTTTGGACCCAGGGGATAAGCTTTTCCGATGTACAATGTGGAGGAAAG  
CACCTGGGGGACAAAGTGCTCGTGCAGGTGGGGCTGGGAAATGCACGTCCCTTCCCTTACTCCCGCCAAAC  
CCACATCCAGCCTCTGGATCCTGGGGAAGTTCCAGTCC

3590/6881  
FIGURE 3311A

CACACGGACTACAGGGGAGTTTTGTGTAAGTTGCAAAGTCCTGGAGCCTCCAGAGGGCTGTCGGCGCAGTAGCAG  
CGAGCAGCAGAGTCCGCACGCTCCGGCGAGGGGCGAGAAGAGCGCGAGGGAGCGCGGGGCAGCAGAAGCGAGAGCC  
GAGCGCGGACCCAGCCAGGACCCACAGCCCTCCCCAGCTGCCCAGGAAGAGCCCCAGCCATGGAACACCAGCTCC  
TGTGCTGCGAAGTGGAACCATCCGCCGCGCTACCCCGATGCCAACCTCCTCAACGACCGGGTGTGCGGGCCA  
TGCTGAAGGCGGAGGAGACCTGCGCGCCCTCGGTGTCTACTTCAAATGTGTGAGAAGGAGGTCTTCCGCTCCA  
TGCGGAAGATCGTCGCCACCTGGATGCTGGAGGTCTGCGAGGAACAGAAGTGCAGGAGGAGGTCTTCCGCTGG  
CCATGAACCTACCTGGACCGCTTCTGTGCTGGAGCCCGTGAAGAGAGCCGCTGCAGCTGCTGGGGGCCACTT  
GCATGTTCTGTGGCTCTAAGATGAAGGAGACCATCCCCCTGACGGCCGAGAAGCTGTGCATCTACACCGACAACCT  
CCATCCGGCCCCGAGGAGCTGCTGCAAATGGAGCTGCTCCTGGTGAACAAGCTCAAGTGAACCTGGCCGCAATGA  
CCCCGCACGATTTCAATTGAACACTTCTCTCCAAATGCCAGAGGCGGAGGAGAACAACAGATCATCCGCAAAC  
ACGCGCAGACCTTCGTTGCCCTCTGTGCCACAGATGTGAAGTTCAATTCCAATCCGCCCTCCATGTTGCCAGCGG  
GGAGCGTGGTGGCCGAGTGCAAGGCTGAACCTGAGGAGCCCCAACAACTTCTGTCTACTACCGCTCACAC  
GCTTCTCTCCAGAGTGATCAAGTGTGACCCAGACTGCCTCCGGGCTGCCAGGAGCAGATCGAAGCCCTGCTGG  
AGTCAAGCCTGCGCCAGGCCCAGCAGAACATGGACCCCAAGGCCGCCGAGGAGGAGGAAGAGGAGGAGGAGGAGG  
TGGACCTGGCTTGACACCCACCGACGTGCGGGACGTGGACATCTGAGGGGCGCCAGGCAGGCGGGCGCCACCGCC  
ACCCGCAGCGAGGGCGGAGCCGGCCCCAGGTGCTCCCTGACAGTCCCTCCTCTCCGGAGCATTTTGATACCAGA  
AGGGAAGCTTCATTCTCCTTGTGTGTTGTTTTTCTCTTTGCTCTTCCCCCTTCCATCTCTGACTTAAGCA  
AAAGAAAAAGATTACCCAAAACTGTCTTTAAAGAGAGAGAGAGAAAAAAAATAGTATTTGCATAACCTGA  
GCGGTGGGGGAGGAGGTTGTGCTACAGATGATAGAGGATTTTATACCCAATAATCAACTCGTTTTTATATTAA  
TGTAAGTTGTTTCTGTGTGTAAGAAATAGGCATTAACACAAAGGAGGCGTCTCGGGAGAGGATTAGGTTCCATCCT  
TTACGTGTTTTAAAAAAGCATAAAAAACATTTTAAAAACATAGAAAAATTCAGCAAACCATTTTTTAAAGTAGAAG  
AGGGTTTTAGGTAGAAAAACATATCTTGTGCTTTTCTGATAAAGCACAGCTGTAGTGGGGTTCTAGGCATCTC  
TGTAAGTTGCTTGTCTCATATGCATGTAGTCATTTATAAGTCATTGTATGTTATTATATTCCGTAGGTAGATGTG  
TAACCTCTTCACCTTATTTCATGGCTGAAGTCACCTCTTGGTTACAGTAGCGTAGCGTGCCCGTGTGCATGTCTT  
TGCGCCTGTGACCACCAACCCCAACAAACCATCCAGTGACAAACCATCCAGTGGAGGTTTGTGCGGCACCCAGCCAG  
CGTAGCAGGGTCGGGAAAGGCCACCTGTCCCCTCTACGATACGCTACTATAAAGAGAAGACGAAATAGTGACA  
TAATATATTCTATTTTTTATACCTTCTCTATTTTTGTAGTGACCTGTTTATGAGATGCTGGTTTTCTACCCAACGG  
CCCTGCAGCCAGCTCACGTCCAGGTTCAACCCACAGCTACTTGGTTTGTGTTCTTCTTCATATTCTAAAACCAT  
CCATTTCCAAGCACTTTCAAGTCCATAGGTGTAGGAAATAGCGCTGTTTTTGTGTTGTGTGTCAGGGAGGGCAGTT  
TTCTAATGGAATGGTTTGGGAATATCCATGTACTTGTGTTGCAAGCAGGACTTTGAGGCAAGTGTGGGCCACTGTG  
GTGGCAGTGGAGGTGGGGTGTGTTGGGAGGCTGCGTGCCAGTCAAGAAGAAAAAGGTTTGCAATTCTCACATTGCCA  
GGATGATAAGTTCCCTTTCTTTTAAAGAAGTTGAAGTTTAGGAATCCTTTGGTGCCAACTGGTGTGTTGAAA  
GTAGGGACCTCAGAGGTTTACCTAGAGAACAGGTGGTTTTTAAAGGTTATCTTAGATGTTTACACCCGAAGGTT  
TTTAAACACTAAAAATATAATTTATAGTTAAGGCTAAAAAGTATATTTATTGCAGAGGATGTTTATAAGGCCAG  
TATGATTTATAAATGCAATCTCCCTTGATTTAAACACACAGATACACACACACACACACACACACAAACC  
TTCTGCCTTTGATGTTACAGATTTAATACAGTTTATTTTTAAAGATAGATCCTTTTATAGGTGAGAAAAAACA  
TCTGGAAGAAAAAACCACACAAAGACATTGATTCAGCCTGTTTGGCGTTTCCAGAGTCATCTGATTGGACAGG  
CATGGGTGCAAGGAAAATTAGGGTACTCAACCTAAGTTCGGTTCCGATGAATCTTATCCCCTGCCCCCTCCTTT  
AAAAAAGTTAGTGACAAAATAGACAATTTGCACATCTTGGCTATGTAATCTTGTAAATTTTTATTTAGGAAGTGT  
TGAAGGGAGGTGGCAAGAGTGTGGAGGCTGACGTGTGAGGGAGGACAGGCGGGAGGAGGTGTGAGGAGGAGGCTC  
CCGAGGGGAAGGGGCGGTGCCACACCGGGGACAGGCCGAGCTCCATTTTCTTATTGCGCTGCTACCGTTGACT  
TCCAGGCACGGTTTGGAAATATTCACATCGCTTCTGTGTATCTTTTACATTGTTTGTGCTATTGGAGGATCA  
GTTTTTGTGTTTACAATGTCATATACTGCCATGTACTAGTTTTAGTTTTCTCTTAGAACATTGTATTACAGATGC  
CTTTTTGTAGTTTTTTTTTTTTTATGTGATCAATTTGACTTAATGTGATTACTGCTCTATTCCAAAAAGGTT  
GCTGTTTACAATACCTCATGCTTCACTTAGCCATGGTGGACCCAGCGGGCAGGTTCTGCCTGCTTTGGCGGGCA  
GACACGCGGGCGGATCCACACAGGCTGGCGGGGGCGGGCCCCGAGGCCGCGTGCCTGAGAACCAGCGCGGGTGT  
CCCCAGAGACCAGGCTGTGTCCCTCTTCTTCCCTGCGCCTGTGATGCTGGGCACTTCATCTGATCGGGGGCGT  
AGCATCATAGTAGTTTTTACAGCTGTGTTATCTTTGCGTGTAGCTATGGAAGTTGCATAATTATTATTATTATT

3591/6881  
**FIGURE 3311B**

ATTATAACAAGTGTGTCTTACGTGCCACCACGGCGTTGTACCTGTAGGACTCTCATTCCGGGATGATTGGAATAGC  
TTCTGGAATTTGTTCAAGTTTGGGTATGTTTAATCTGTTATGTACTAGTGTCTGTTTGTATTGTTTTGTTAA  
TTACACCATAATGCTAATTTAAAGAGACTCCAAATCTCAATGAAGCCAGCTCACAGTGCTGTGTGCCCCGGTCAC  
CTAGCAAGCTGCCGAACCAAAAGAATTTGCACCCCGCTGCGGGCCACGTGGTTGGGGCCCTGCCCTGGCAGGGT  
CATCCTGTGCTCGGAGGCCATCTCGGGCACAGGCCACCCCGCCCCACCCCTCCAGAACACGGCTCACGCTTACC  
TCAACCATCCTGGCTGCGGCGTCTGTCTGAACCACGCGGGGGCCTTGAGGGACGCTTTGTCTGTCGTGATGGGGC  
AAGGGCACAAGTCTGGATGTTGTGTGTATCGAGAGGCCAAAGGCTGGTGGCAAGTGCACGGGGCACAGCGGAGT  
CTGTCTGTGACGCGCAAGTCTGAGGGTCTGGGCGGCGGGCGGCTGGGTCTGTGCATTTCTGGTTGCACCGCGGC  
GCTTCCCAGCACCAACATGTAACCGGCATGTTCCAGCAGAAGACAAAAGACAAACATGAAAGTCTAGAAATAA  
AACTGGTAAAACCCCAAAAAAAAAAAAAAAAAA

3592/6881  
**FIGURE 3312**

MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLPSMRKIVATWMLEVCEEQKCEE  
EVFPLAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQMELLLVNKLKW  
NLAAMTPHDFIEHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFISNPPSMVAAGSVVAQGLNLRSPNNFLS  
YYRLTRFLSRVIKCDPDCLRACQEQIEALLESSLRQAQONMDPKAAEEEEEEEEVLDLACTPTDVRDVDI

3593/6881

**FIGURE 3313**

CTCTAAAGGTTTCGGGGGTGGAATCCTTGGGCCGCTGGGCAAGCGGCGAGACCTGGCCAGGGCCAGCGAGCCGAGG  
ACAGAGGGCGCACGGAGGGCCGGGCCGAGCCCCGGCCGCTTGCAGACCCCGCCATGGACCCGTTCTGGTGCTG  
CTGCACTCGGTGTCTGCCAGCCTGTCGAGCAGCGAGCTGACCGAGCTCAAGTTCCTATGCCTCGGGCGCGTGGGC  
AAGCGCAAGCTGGAGCGCGTGCAGAGCGGCCTAGACCTCTTCTCCATGCTGCTGGAGCAGAACGACCTGGAGCCC  
GGGCACACCGAGCTCCTGCGCGAGCTGCTCGCCTCCCTGCGGCGCCACGACCTGCTGCGGCGCGTGCAGCAGCTC  
GAGGCGGGGGCGGCGGGCCGGCCGCGCCTGGGGAAGAAGACCTGTGTGCAGCATTTAACGTCATATGTGATAAT  
GTGGGGAAAGATTGGAGAAGGCTGGCTCGTCAGCTCAAAGTCTCAGACACCAAGATCGACAGCATCGAGGACAGA  
TACCCCCGCAACCTGACAGAGCGTGTGCGGGAGTCACTGAGAATCTGGAAGAACACAGAGAAGGAGAACGCAACA  
GTGGCCCACCTGGTGGGGGCTCTCAGGTCTTGCCAGATGAACCTGGTGGCTGACCTGGTACAAGAGGTTCAGCAG  
GCCCCGTGACCTCCAGAACAGGAGTGGGGCCATGTCCCCGATGTCATGGAACCTCAGACGCATCTACCTCCGAAGCG  
TCTTGATGGGCCGCTGCTTTGCGCTGGTGGACCACAGGCATCTACACAGCCTGGACTTTGGTTCTCTCCAGGAAG  
GTAGCCCAGCACTGTGAAGACCCAGCAGGAAGCCAGGCTGAGTGAGCCACAGACCACCTGCTTCTGAACCTCAAGC  
TGCGTTTATTAATGCCTCTCCCGCACCAGGCCGGGCTTGGGCCCTGCACAGATATTTCCATTTCTCTCCTCACTAT  
GACACTGAGCAAGATCTTGTCTCCACTAAATGAGCTCCTGCGGGAGTAGTTGGAAGTTGGAACCGTGTCCAGCA  
CAGAAGGAATCTGTGCAGATGAGCAGTCACACTGTTACTCCACAGCGGAGGAGACCAGCTCAGAGGCCCAGGAAT  
CGGAGCGAAGCAGAGAGGTGGAGAATGGGATTTGAACCCCGCCATCCTTCACCAGAGCCCATGCTCAACCACT  
GTGGCGTTCTGCTGCCCCTGCACTTGGCAGAAAGGATGTTTTGTCCCATTTCTTGGAGGCCACCGGGACAGACC  
TGGACACTAGGGTCAGGCGGGGTGCTGTGGTGGGGAGAGGCATGGCTGGGGTGGGGGTGGGGAGACCTGGTTGGC  
CGTGGTCCAGCTCTTGGCCCCGTGTGAGTTGAGTCTCCTCTCTGAGACTGCTAAGTAGGGGCAGTGATGGTTGC  
CAGGACGAATTGAGATAATATCTGTGAGGTGCTGATGAGTGATTGACACACAGCACTCTCTAAATCTTCCTTGTG  
AGGATTATGGGTCTGCAATTCTACAGTTTCTTACTGTTTTGTATCAAAATCACTATCTTTCTGATAACAGAATT  
GCCAAGGCAGCGGGATCTCGTATCTTTAAAAAGCAGTCCTCTTATTCCTAAGGTAATCCTATTAAAA

3594/6881  
**FIGURE 3314**

MDPFLVLLHSVSSSLSSSELTFLKFLCLGRVGGKRRKLERVQSGLDLFSMLLEQNDLEPGHTELLRELLASLRRHDL  
LRRVDDFEAGAAAGAAPGEEDLCAAFNVICDNVGKDWRRRLARQLKVSDTKIDSIEDRYPRNLTERVRESLRIWKN  
TEKENATVAHLVGALRSCQMNLVADLVQEVQQARDLQNRSGAMSPMSWNSDASTSEAS

3595/6881  
**FIGURE 3315**

GAAGCCAGGCTGAGTGAGCCACAGACCACCTGCTTCTGAACTCAAGCTGCGTTTATTAATGCCTCTCCCGCACCA  
GGCCGGGCTTGGGCCCTGCACAGATATTTCCATTTCTTCTCACTATGACACTGAGCAAGATCTTGTCTCCACTA  
AATGAGCTCCTGCGGGAGTAGTTGGAAAGTTGGAACCGTGCCAGCACAGAAGGAATCTGTGCAGATGAGCAGTC  
ACACTGTTACTCCACAGCGGAGGAGACCAGCTCAGAGGCCAGGAATCGGAGCGAAGCAGAGAGGTGGAGAAGT  
GGATTGAACCCCCGCCATCCTTCACCAGAGCCCATGCTCAACCACTGTGGCGTTCTGCTGCCCCTGCAAGTTGGC  
AGAAAGGATGTTTTGTCCCATTTCTTGGTCCAGCTCTTGGCCCCGTGTGTGAGTTGAGTCTCCTCTCTGAGACTG  
CTAAGTAGGGGCAGTGATGGTTGCCAGGACGAATTGAGATAATATCTGTGAGGTGCTGATGAGTGATTGACACAC  
AGCACTCTCTAAATCTTCCTTGTGAGGATTATGGGTCTGCAATTCTACAGTTTCTTACTGTTTTGTATCAAAAT  
CACTATCTTTCTGATAACAGAATTGCCAAGGCAGCGGGATCTCGTATCTTTAAAAAGCAGTCCTCTTATTCCTAA  
GGTAATCCTATTAAAACACAGCTTTACAACCTCCATACTAC



3596/6881  
**FIGURE 3316A**

GAATTCGGGGCCCCGGCCGTCCCTCTTAAGGCTCTTCCTCCGCTCCGCCAGTGTCCGGCCGGGGCCGGCCCTTA  
GTGACTGGGGCGGGGGCCCCGGGGCCGGCGTGGGGCGGGCAGGCGGACGCCGGCCGGGGCTGCTTTCGTGCG  
GCTCCCAAGCTCTCCCGAGCGAGCAGCCGCCCGGAGCCGCCGGAGCCTCCTCGCCCGCTCCCGCCGGCGAG  
CAAGATGATGTGCGAGGTGATGCCGACCATCAGCGAAGCAGAAGGCCCCCTTGAGGAGGTGGAGGCCATGGTTC  
CGGCTCCCCTTCACAGCCAGATGCAGATTACATTTTGAACAGTTGATGGTCTCCATGCTAGAAGAAAGGGACCG  
CCTTCTTGATACACTGAGAGAGACTCAAGAAACGCTGGCCTTAACCCAGGGGAAGTTACACGAGGTGGTTCATGA  
AAGAGATTCTTGCAGAGACAGCTCAACACGGCACTTCCACAGGAGTTTCGAGCACTTACTAAAGAACTCAATGT  
ATGCAGGGAACAGCTCCTTGAAAGGGAAGAAGAAATTGCTGAAGTGAAGCAGAAAGGAATAACACCAGGCTGCT  
GTTAGAGCATTGGAATGCCTTGTCTCCAGGCATGAGCGGTCTCTTAGGATGACCGTGGTGAAGAGACAAGCGCA  
GTCTCCAGCAGGCGTGTCCAGCGAAGTGAAGTGTGTAAGCACTGAAGTCTTATTGAACACCACAAAGCTCT  
GGATGAAAAGGTGAGAGAGCGATTACGAGTAGCACTTGAAGATGTAGTTTGTAGAGAGGAATTAGGTGCCAC  
ACACAAAGAGCTAATGATTCTTAAAGAACAGAATAATCAGAAAAAACTCTAACAGATGGAGTGTGGACATAAA  
CCATGAACAAGAAAATACACCAAGCAGAGTGGAAAGAGATCTTCTGATGGTCTTTAAGCCACGAGGAAGACCT  
TGCTAAAGTAATTGAGCTCCAAGAAATCATAAGTAAGCAGTCAAGGGAACAGAGCCAAATGAAAGAACGCTGGC  
TTCCCTTTCCAGTCATGTGACAGAACTGGAAGAGGATCTGGACACGGCTAGAAAAGATCTCATCAAATCTGAAGA  
AATGAACACAAAATTGCAACGAGATGTCCGTGAAGCCATGGCCCAAAAGGAAGATATGGAAGAGAGAATCACTAC  
TCTTGAACAAACGCTACCTCGCTGCACAGCGTGAAGCCACATCTGTGCATGACCTCAATGATAAACTTGAAAATGA  
AATTGCAATAAAGATTCTATGCATCGACAGACTGAAGATAAAACCGCCAGTTACAGGAGCGCTTGAATGGC  
AGAGCAAAAGCTGCAACAGACACTGAGGAAGGCAGAGACGCTCCCGGAGGTGGAGGCGGAGCTGGCCAGAGGGT  
GGCAGCGCTTTCCAAGGCTGAAGAGAGACACGGCAACATTGAAGAAAGGTTACGACAGATGGAAGCACAGTTGGA  
GGAGAAGAATCAAGAACTGCAGCGGGCAAGGCAAGAGAAAAAATGAACGAAGAACATAATAAACGTTTATCAGA  
CACTGTTGACAAGCTGCTTTTCAAGATCTAATGAGAGGCTTCAACTTCATCTTAAAGAGAGAATGGCTGCTTTGGA  
AGATAAGAACTCTCTTTTAAAGAGAAGTTGAAAGTGCAAAAAAGCAGTTAGAAGAAACACAACAGGATAAGGATCA  
GCTTGTCTTAAACATTGAAGCACTGAGGGCTGAAGTAGACCACATGAGACTAAGAGGTGCTTCACTTCATCATGG  
CCGACCCCACTTGGGCAGTGTCCAGATTTTCAAGTTTCCCATGGCAGACGGCCACACAGACTCCTACAGCACCAG  
TGCAGTGTGCGGGCGCCACAGAAAGGCCGGCTGGCAGCCCTGCGAGATGAGCCTTCCAAGGTACAACTCTTAA  
TGAGCAGGATTGGGAACGTGCCAGCAAGCTAGTGTCTTGGCAATGTAGCACAAAGCATTGAGAGTGATGCTGA  
CGTGTCTGATGGTGAAGATGACAGGGACACTCTCCTCAGCTCAGTTGACCTGCTATCGCCAGCGGGCAGGCCGA  
CGCGCACACACTAGCCATGATGCTTCAGGAGCAGCTGGACGCCATCAACAAAGAGATCAGGTTGATTAGGAAGA  
AAAAGAAAATACAGAGCAGCGGGCAGAGGAGATTGAAAGTCGAGTTGGCAGTGAAGTCTAGACAATCTTGGTCG  
TTTATGATCAATGAGCTCCATTCCCCCTACCTGCTTCTCGCTTGCTAGCTCCTCCCTCCGGGCAGTGGGCG  
CTCCACCCACGAAGGATCCCTCACAGCCAGCTCGGGAAGTGGACAGACTGGGCGTCATGACCCTTTTGCCACC  
TTCCAGAGAAGAGGTACGAGATGACAAGACAACCATAAAGTGTGAAACCTCCCGCCTTCTCCCGAGAGCCCT  
TCGGTTAGACCGGCTGCACAAAGGGGCGCTGCACACCGTCAGCCACGAGGACATCAGGACATAAGGAATCCAC  
AGGCTCCCAGGATGGTCCCGTGAGCAACCCACAGCAGTAGCAACAGTAGCCAGGACTCGCTCCACAAAGCCCCAA  
GAAGAAAGGCATTAAAGTCTCCATTGGCCGCTTGTTTGGCAAGAAAGAAAAGGGCCGACCTGGACAACTGGCAA  
AGAAGCATTAGGACAAGCTGGTGTTCGAGACGGATAACTCATCTCAGGATGCCTTGGGACTTAGCAAATTGGG  
GGGACAGGCTGAAAAAATCGTAAACTTCAAAAAAGCATGAATTGCTGGAGGAAGCCCGGAGACAAGGTTTACC  
TTTTGCCAATGGGACGGGCCAACGGTTGTGGTCTGGCTAGAGCTCTGGGTTGGGATGCCAGCCTGGTATGTGGC  
TGCTTCCGAGCAAACGTGAAAAGCGGGGCCATCATGTCCGCCCTGTCCGACACAGAGATCCAGCGTGAGATTGG  
CATCAGCAACCCCTGCACAGGCTGAAGCTGAGGCTGGCCATCCAGGAGATCATGTGCTGACCAGCCCGTCTGC  
CCCGCCACATCTAGAACGACACTCGCCTATGGGGACATGAACCACGAGTGGATCGGCAACGAGTGGCTCCCCAG  
CCTGGGCCTCCCCAGTACCGCAGCTACTTCATGGAGTGCCTTGTAGACGCCAGGATGCTGGACCATTGACCAA  
GAAAGACCTTCGAGGGCAGCTGAAAATGGTCGACAGTTTTCACAGAAACAGTTTCCAGTGTGGAATTATGTGCT  
GAGAAGGTTAAATTATGACCGGAAAGAACTGGAAGAAAAAGAGAAGAAAGTCAAGTGAATAAAGACGTGCT  
TGTTTGGAGCAATGATCGAGTGATTGCTGGATCCTGTCAATTGGCCTTAAAGAATATGCAACAATCTTATAGA  
GAGTGGTGTTCACGGAGCACTTCTGGCCTTAGATGAAACCTTCGACTTCAGTGCAGTGGCACTGCTGTTACAGAT  
CCCCAGCAGAACACACAGGCTCGTGTCTTGGAAAGAGAATTTAACAACCTTTTGGTCATGGGACTGATAG

3597/6881  
**FIGURE 3316B**

AAGGTTTGATGAAGATGATGATAAAAGCTTTAGGAGAGCACCTTCATGGAGAAAAAAGTTTAGACCAAAGGACAT  
TCGTGGCTTAGCTGCTGGGTCAGCAGAGACTCTCCCTGCAAACCTCCGGGTGACTTCTTCTATGTCTTCCCCCTC  
TATGCAGCCAAAGAAGATGCAGATGGACGGCAATGTATCAGGAACACAGAGGTTGGATTCTGCTACAGTCAGGAC  
TTACTCCTGCTAAAGTCTCCTGTTGTTTACCCACACTACTTCTACAGATGATTATGCAGCATTGAATCCAACAA.  
AGACTACATTTTGGGAACCAAGTGAATCTTTAATCTTGTTAATACTTGTTATATGGACCCTAAGATATTTATTAC  
AGAGTTTTTAATTAGTGAAAAATTCATGAATACCATAGAGAAAATATTTAGAAATTTAATGTTTCTTATATTTAT  
GTAAACTTATGACTCTTCATTTATATAGTTACTTACTTTTTTCATGTATATCCAGGCTATAAATATCCTTTCAAAT  
CATGTTCTTATACCTAATTTTAGTCTTTCAAATGAATGTACTGTAATGCTGTATGTATAAATCCTATGAATAGA  
GGGCTTTTGTAATTTATGCATTTATTGTAATTATCATTAAATTTTTTAATGATAAACCATGACAAAGGATTTTACG  
TTTATAAAATTATGACAGAAGCCATGTGCCCCGAATTC

3598/6881

**FIGURE 3317**

MMCEVMPTISEAEGPPGGGGHSGSGSPSQPDADSHFEQLMVSMLEERDRLDITLRETQETLALTQGKLHEVGHER  
DSLQRLNTALPQEFALTKELVNCREQLLEEEEEIAELKAERNNTRLLEHLECLVSRHERSLRMTVVKRQAQS  
PAGVSSEVEVLKALKSLFEHHKALDEKVRERLRVALERCSLLEELGATHKELMILKEQNNQKKTITDGVLDINH  
EQENTPSTSGKRSSDGSLSHEEDLAKVIELQEIISKQSREQSOMKERLASLSSHVTELEEDLDTARKDLIKSEEM  
NTKLQRDVREAMAQKEDMEERITTTLEKRYLAAQREATSVHDLNDKLENEIANKDSMHRQTEDKNRQLQERLELAE  
QKLQOTLRKAETLPEVEAELAQRVAALSKAEERHGNIEERLRQMEAQLEEKQELQARARQREKMNEEHNKRLSDT  
VDKLLSESNERLQLHLKERMAALEDKNSLLREVESAKKQLEETQHDKDQLVLNIEALRAELDHMLRGASLHHGR  
PHLGSVPDFRFPMDAGHTDSYSTSAVLRRPQKGRLAALRDEPSKVQTLNEQDWERAAQASVLANVAQAFESDADV  
SDGEDDRDITLLSSVDLLSPSGQADAHTLAMMLQEQLDAINKEIRLIQEEKENTEQRAEEIESRVGSGSLDNLGRF  
RSMSSIPPYPASSLASSSPPGSGRSTPRRIPHSPAREVDRLGVMITLLPPSREEVRDDKTTIKCETSPSSPRALR  
LDRLHKGALHTVSHEDIRDIRNSTGSQDGPVSNPSSSNSSQDSLHKAPKKKGIKSSIGRLFGKKEKGRPGQTGKE  
ALGQAGVSETDNSSQDALGLSKLGGQAEKNRKLQKKHELLEEARQGLPFAQWDGPTVVVWLELWVGMPAWYVAA  
CRANVKSGAIMSALSDEIQREIGISNPLHRLKLRLAIQEIMSLTSPSAPPTSRTTLAYGDMNHEWIGNEWLP  
SLGLPQYRSYFMECLVDARMLDHLTKDLRGQLKMVDSFHRNSFQCGIMCLRRLNYDRKELERKREESQSEIKDVLV  
WSNDRVIRWILSIGLKEYANNLIESGVHGALLALDETFDFSALALLLQIPTQNTQARAVLEREFNNLLVMGTD  
RRFDEDDKSFRRAPSWRKKFRPKDIRGLAAGSAETLPANFRVTSSMSSPSMQPKMQMDGNVSGTQRLDSATVRTY  
SC

3599/6881  
**FIGURE 3318A**

ACGAAGAGGTACGATTCCGGAGAATCGCGAGGCAGAGCGGGAGCGCGCAGCCAGGTGGAACTAATTCTAAGCCA  
GACTGCTGGAGATCACCTGTTCCTAGTGTGTGGAGGCTTCCACCAGGAGGCGCATTGGAGTGACTGTCTGGCATC  
ACCAAGATGACACTCCACGCCACCCGGGGGGCTGCCTCTCTTGGGTGAACAGTCTACACGTGGCTGACCCCT  
GTGGAGGCTGTGCTGCAGCTCCAGGACTGCAGCATCTTCATCAAGATCATTGACAGAATCCATGGCACTGAAGAG  
GGACAGCAAATCTTGAAGCAGCCGGTGTGAGAGAGACTGGACTTTGTGTGCAGTTTTCTGCAGAAAATCGAAAAC  
ATCCCTCTTCCCCAGAATGCCTGGTATCTGCACAGAAGGTGCTAGAGGGATCAGAGCTGGAACCTGGCGAAGATGA  
CCATGTGCTCTTATACCACTCTACCATGAGCTCCAAAAGTCCAGGGACTGGGAACAGTTTGAATATAAAATTC  
AGGCTGAGTTGGCTGTCTATTCTTAAATTTGTGCTGGACCATGAGGACGGGCTAAACCTTAATGAGGACCTAGAGA  
ACTTCTACAGAAAGCTCCGTGCTTCTACCTGTTCTAGCACATTCCCTGAAGAGCTCTCCCCACCTAGCCACC  
AGGCCAAGAGGGAGATTGCTTCTAGAGCTACAGAAGGTTGCCTCTCTTCCAGTGGGAACAACCTTTCTCTCAG  
GTTCTCCAGCTTCTCCCATGGGTGATATCCTGCAGACCCACAGTTCCAGATGAGACGGCTGAAGAAGCAGCTTG  
CTGATGAGAGAAGTAATAGGGATGAGCTGGAGCTGGAGCTAGCTGAGAACCAGCAAGCTCCTCACCAGAAAGGATG  
CACAGATAGCCATGATGCAGCAGCGCATTGACCGCTAGCCCTGCTGAATGAGAAGCAGGCGGCCAGCCACTGG  
AGCCCAAGGAGCTTGAGGAGCTGCGTGACAAGAATGAGAGCCTTACCATGCGGCTGCATGAAACCTGAAGCAGT  
GCCAGGACCTGAAGACAGAGAAGAGCCAGATGGATCGCAAAATCAACCAGCTTTCGGAGGAGAATGGAGACCTTT  
CCTTTAAGCTGCGGGAGTTTGCCAGTCTATGCAGCAGCTACAGGATGCCCTCAATGAGCTGACGGAGGAGCACA  
GCAAGGCCACTCAGGAGTGGCTAGAGAAGCAGGCCAGCTGGAGAAGGAGCTCAGCGCAGCCCTGCAGGACAAGA  
AATGCCTTGAAGAGAAGAACGAAATCCTTCAGGGAAAACCTTTCACAGCTGGAAGAACAATTGTCCAGCTGCAGG  
ATAACCCACCCAGGAGAAGGGCGAGGTGCTGGGTGATGTCTTGCAGCTGGAACCTTGAAGCAAGAGGCAGCCA  
CTCTTGCTGCAAAACAACACAGCTCCAAGCCAGGGTAGAGATGCTGGAGACTGAGCGAGGCCAGCAGGAAGCCA  
AGCTGCTTGCTGAGCGGGGCCACTTCAAGAAGAAAAGCAGCAGCTGTCTAGCCTGATCACTGACCTGCAGAGCT  
CCATCTCCAACCTCAGCCAGGCCAAGGAAGAGCTGGAGCAGGCCCTCCAGGCTCATGGGGCCCGTTGACTGCCC  
AGGTGGCCTCTCTGACCTCTGAGCTCACCACACTCAATGCCACCATCCAGCAACAGGATCAAGAACTGGCTGGCC  
TGAAGCAGCAGGCCAAAGAGAAGCAGGCCAGCTAGCACAGACCCTCCAACAGCAAGAACAGGCCTCCAGGGCC  
TCCGCCACCAGGTGGAGCAGCTAAGCAGTAGCCTGAAGCAGAAGGAGCAGCAGTTGAAGGAGGTAGCGGAGAAGC  
AGGAGGCAACTAGGCAGGACCATGCCCAGCAACTGGCCACTGTCTGCAGAGGAGCGAGAGGCCTCCTTAAGGGAGC  
GGGATGCGGCTCTCAAGCAGCTGGAGGCACTGGAGAAGGAGAAGGCTGCCAAGCTGGAGATTCTGCAGCAGCAAC  
TTCAGGTGGCTAATGAAGCCCGGACAGTGCCAGACCTCAGTGACACAGGCCCAGCGGGAGAAGGCAGAGCTGA  
GCCGGAAGGTGGAGGAACCTCAGGCCTGTGTTGAGACAGCCCGCCAGGAACAGCATGAGGCCCAGGCCAGGTTG  
CAGAGCTAGAGTTGCAGCTGCGGTCTGAGCAGCAAAAGCAACTGAGAAAGAAAGGTTGGCCAGGAGAAGGACC  
AGCTCCAGGAGCAGCTCCAGGCCCTCAAAGAGTCTTGAAGGTACCAAGGGCAGCCTTGAAGAGGAGAAGCGCA  
GGGCTGCAGATGCCCTGGAAGAGCAGCAGCGTTGATCTCTGAGCTGAAGGCAGAGACCCGAAGCCTGGTGGAGC  
AGCATAAGCGGGAACGAAAGGAGCTGGAAGAAGAGAGGGCTGGGCGCAAGGGGCTGGAGGCTCGATTACAGCAGC  
TTGGGGAGGCCCATCAGGCTGAGACTGAAGTCTGCGGCGGGAGCTGGCAGAGGCCATGGCTGCCCAGCACACAG  
CTGAGAGTGAGTGTGAGCAGCTCGTCAAAGAAGTAGCTGCCTGGCGTGAGCGGTATGAGGATAGCCAGCAAGAGG  
AGGCACAGTATGGCGCCATGTTCCAGGAACAGCTGATGACTTTGAAGGAGGAATGTGAGAAGGCCCGCCAGGAGC  
TGCAGGAGGCAAGGAGAAGGTGGCAGGCATAGAATCCACAGCGAGCTCCAGATAAGCCGGCAGCAGAACGAAC  
TAGCTGAGCTCCATGCCAACCTGGCCAGAGCACTCCAGCAGGTCCAAGAGAAGGAAGTCAGGGCCGAGAAGCTTG  
CAGATGACCTCTCCACTCTGCAGGAAAAGATGGCTGCCACCAGCAAGAGGTGGCCCGCTTGGAGACCTTGGTGC  
GCAAGGCAGGTGAGCAGCAGGAAACAGCCTCCCGGGAGTTAGTCAAGGAGCCTGCGAGGGCAGGAGACAGACAGC  
CCGAGTGGCTGGAAGAGCAACAGGGACGCCAGTTCTGCAGCACACAGGCAGCGCTGCAGGCTATGGAGCGGGAGG  
CAGAGCAGATGGCAATGAGCTGGAACGGCTGCGGGCCGCGCTGATGGAGAGCCAGGGGCAGCAGCAGGAGGAGC  
GTGGGCAGCAGGAAAGGGAGGTGGCGCGGCTGACCCAGGAGCGGGGCCGTGCCAGGCTGACCTTGCCCTGGAGA  
AGGCGGCCAGAGCAGAGCTTGAGATGCGGCTGCAGAAGCCCTCAACGAGCAGCGTGTGGAGTTGCTACCTTGC  
AAGAGGCACTGGCTCATGCCCTGACGGAAGGAAGGCAAGGACCAGGAGTTGGCCAAGCTTCGTGGTCTGGAGG  
CAGCCCAGATAAAAAGAGCTGGAGGAACTTCGGCAAAACCGTGAAGCAACTGAAGGAACAGCTGGCTAAGAAAGAAA  
AGGAGCACGCATCTGGCTCAGGAGCCCAATCTGAGGCTGCTGGCAGGACAGAGCCAACAGGCCCAAGCTGGAGG  
CACTGCGGGCAGAGGTGAGCAAGCTGGAACAGCAATGCCAGAAGCAGCAGGAGCAGGCTGACAGCCTGGAACGCA

3600/6881  
**FIGURE 3318B**

GCCTCGAGGCTGAGCGGGCCTCCCGGGCTGAGCGGGACAGTGCTCTGGAGACTCTGCAGGGCCAGTTAGAGGAGA  
AGGCCCAGGAGCTAGGGCACAGTCAGAGTGCCCTTAGCCTCGGCCAACGGGAGTTGGCTGCCTTCCGCACCAAGG  
TACAAGACCACAGCAAGGCTGAAGATGAGTGGAAGGCCAGGTGGCCCGGGCCGGCAAGAGGCTGAGAGGAAAA  
ATAGCCTCATCAGCAGCTTGGAGGAGGAGGTGTCCATCTGAATCGCCAGGTCTGGAGAAGGAGGGGGAGAGCA  
AGGAGTTGAAGCGGCTGGTGATGGCCGAGTCAGAGAAGAGCCAGAAGCTGGAGGAGAGGCTGCGCCTGCTGCAGG  
CAGAGACAGCCAGCAACAGTGCCAGAGCTGCAGAACGCAGCTCTGCTCTGCGGGAGGAGGTGCAGAGCCTCCGGG  
AGGAGGCTGAGAAACAGCGGTGGCTTCAGAGAACCTGCGGCAGGAGCTGACCTCACAGGCTGAGCGTGCAGGAGG  
AGCTGGGCCAAGAATTGAAGGCGTGGCAGGAGAAGTTCTTCCAGAAAGAGCAGGCCCTCTCCACCCTGCAGCTCG  
AGCACACCAGCACACAGGCCCTGGTGAGTGAGCTGCTGCCAGCTAAGCACCTCTGCCAGCAGCTGCAGGCCGAGC  
AGGCCGCTGCCGAGAAACGCCACCGTGAGGAGCTGGAGCAGAGCAAGCAGGCCGCTGGGGGACTGCGGGCAGAGC  
TGCTGCGGGCCAGCGGGAGCTTGGGGAGCTGATTCTCTGCGGCAGAAGGTGGCAGAGCAGGAGCGAACAGCTC  
AGCAGCTGCGGGCAGAGAAGGCCAGCTATGCAGAGCAGCTGAGCATGCTGAAGAAGGCGCATGGCCTGCTGGCAG  
AGGAGAACCGGGGGCTGGGTGAGCGGGCCAACCTTGGCCGCGAGTTTCTGGAAGTGAGTTGGACCAGGCCCGGG  
AGAAGTATGTCCAAGAGTTGGCAGCCGTACGTGCTGATGCTGAGACCCGTCTGGCTGAGGTGCAGCGAGAAGCAC  
AGAGCACTGCCCGGGAGCTGGAGGTGATGACTGCCAAGTATGAGGGTGCCAAGGTCAAGGTCTGGAGGAGAGGC  
AGCGGTTCCAGGAAGAGAGGCAGAACTCACTGCCCAGGTGGAGCAGCTAGAGGTATTTTCAGAGAGAGCAAACTA  
AGCAGGTGGAAGAACTGAGTAAGAACTGGCTGACTCTGACCAAGCCAGCAAGGTGCAGCAGCAGAAGCTGAAGG  
CTGTCCAGGCTCAGGGAGGCGAGAGCCAGCAGGAGGCCAGCGCCTCCAGGCCAGCTGAATGAAGTGAAGCCC  
AGTTGAGCCAGAAGGAGCAGGCAGCTGAGCACTATAAGCTGCAGATGGAGAAAGCCAAAACACATTATGATGCCA  
AGAAGCAGCAGAACCAAGAGCTGCAGGAGCAGCTGCGGAGCCTGGAGCAGCTGCAGAAGGAAAACAAAGAGCTGC  
GAGCTGAAGCTGAACGGCTGGGCCATGAGCTACAGCAGGCTGGGCTGAAGACCAAGGAGGCTGAACAGACCTGCC  
GCCACCTTACTGCCCAGGTGCGCAGCCTGGAGGCACAGGTTGCCCATGCAGACCAGCAGCTTCGAGACCTGGGCA  
AATTCCAGGTGGCAACTGATGCTTTAAAGAGCCGTGAGCCCCAGGCTAAGCCCCAGCTGGACTTGAGTATTGACA  
GCCTGGATCTGAGCTGCGAGGAGGGGACCCCACTCAGTATCACCAGCAAGCTGCCTCGTACCCAGCCAGACGGCA  
CCAGCGTCCCTGGAGAACCAGCCTCACCTATCTCCAGCGCCTGCCCCCAAGGTAGAATCCCTGGAGAGTCTCT  
ACTTCACTCCCATCCCTGCTCGGAGTCAGGCCCCCTGGAGAGCAGCCTGGACTCCCTGGGAGACGTCTTCCTGG  
ACTCGGGTCGTAAGACCCGCTCCGCTCGTGGCGCACCACGCAGATCATCAACATCACCATGACCAAGAAGCTAG  
ATGTGGAAGAGCCAGACAGCGCCAACCTCATGTTCTACAGCAGCGGCTGCTCCTGCTTCCAGGCTAGCCTGC  
GAGCCACCTCCTCTACTCAGTCTCTAGCTCGCCTGGGTTCTCCCGATTATGGCAACTCAGCCCTGCTCAGCTTGC  
CTGGCTACCGCCCCACCACTGCAAGTTCTGCTCGTTCCTCCAGGCCGGGTGTCCAGTGGGGCCCTCCAGGAA  
GGAACAGCTTCTACATGGGCACTTGCCAGGATGAGCCTGAGCAGCTGGATGACTGGAACCGCATTGCAGAGCTGC  
AGCAGCGCAATCGAGTGTGCCCCCACATCTGAAGACCTGCTATCCCCTGGAGTCCAGGCCTTCCCTGAGCCTGG  
GCACCATCACAGATGAGGAGATGAAAACCTGGAGACCCCCAAGAGACCCTGCGCCGAGCCAGCATGCAGCCAATCC  
AGATAGCCGAGGGCACTGGCATCACCACCCGGCAGCAGCGCAACGGGTCTCCCTAGAGCCCCACAGGGCCCTG  
GAACTCCTGAGTCTAAGAAGGCCACCAGCTGTTTCCACGCCCATGACTCCCCGAGACCGACATGAAGGGCGCA  
AACAGAGCACTACTGAGGCCAGAAGAAAGCAGCTCCAGCTTCTACTAAACAGGCTGACCGGCGCCAGTCGATGG  
CCTTCAGCATCTCAACACACCCAAGAAGCTAGGGAACAGCCTTCTGCGGCGGGGAGCCTCAAAGAAGGCCCTGT  
CCAAGGCTTCCCCAACACTCGCAGTGGAACCCGCCGTTCTCCGCGCATTGCCACCACACAGCCAGCGCCGCCA  
CTGCTGCGGCCATTGGTGCCACCCCTCGAGCCAAGGGCAAGGCAAGCACTAAAGGGCCAGTACCAGTGAGTGGC  
CCCACCTGTGTCCCGATGCTGACCTCACCTGGTCTCCGCTACTGTCCCTCTCAGTGCCCTTCTCTCAGCTCCC  
AGGCCAACAGTAGCCAAACCCCTAGAGACAGTGATGCCTGCCCCGACCCTGGCCTGGTCCCTGGTCTCTTCACTGG  
CGCCTTCTCGGAGCTGGCCCAGGGGGCCTGGAGCATGGACAGTGTGGGCGCTCTCCCTACCTTGCCCTCTTTT  
CTTAAAGCAAAGTCACTTCTCCATCACAACCAGATTGAGGCTGGTTTGATGGCTGGGTCTTGGGCTGGCCA  
GTCTTCTCTTAGCCTCTGGATCTAGAAGGGACCATAAGAGGAGTAGGCCCTGGTTCTGCTGTCTGGTGGCTG  
GGCCAGCAGGGGCCCTCACTCTGAAGTCCAGGACTGGGTCTGACCTGGTGGGAGCACTGCCAGAGGATGCTC  
TTTCCAGGACGGATGGGCCCTATGTCTCAGGAGTGGGGTTGGGGGACAGCCTTCAGCAGCAGCTCACACCCTAC  
CTTCCCCAGACTTGCAGTGGGGTGGGATTTGGAGTGATGGGAAGGTTTTTAAGGGCCGGGGATGGATCTTTCTA  
AATGTTATTACTTGTAAATAAAGTCTATTTTTCTCCCGTG

3601/6881  
**FIGURE 3319**

MTMLLLYHSTMSKSPRDWEQFEYKIQAE LAVILKFVLDHEDGLNLNEDLENFLQKAPVPSTCSSTFPEELSPPS  
HQAKREIRFLELQKVASSSSGNNFLSGSPASPMGDILQTPQFQMRRLKKQLADERSNRDELELELAENRKLLTEK  
DAQIAMMQQRIDRLALLNEKQAASPLEPKELEELRDKNESLTMRLHETLKQCQDLKTEKSQMDRKINQLSEENG  
LSFKLREFASHLQQLDALNELTEEHKATQEWLEKQAQLEKELSAALQDKKCLEEKNEILQGKLSQLEEHLSQL  
QDNPPQEKGEVLGDVQLLETILKQEAATLAANNLQQLARVEMLETERGQQAELLAERGHFEEKQQLSSLITDLQ  
SSISNLSQAKEELEQASQAHGARLTAQVASLTSELTTLNATIQQQDQELAGLKQQAQKQQAQLAQTLQOQEQASQ  
GLRHQVEQLSSSLKQKEQQLKEVAEKQEAATRODHAQQLATAAEEREASLRERDAALKQLEALEKEKAACLEILQQ  
QLQVANEARDSAQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAEELQLRSEQQKATEKERVQAEK  
DQLQEQQLALKESLKVTKGSLEEEKRRAADALEEQRCISELKAETRSLVEQHKRERKELEERAGRKGLEARLQ  
QLGEAHQAETEVLRLRELAEAMAAQHTAESECEQLVKEVAAWRERYEDSQEEAQYGAMFQEQMLTKEECEKARQ  
ELQEAKEKVAGIESHSELQISRQONELAEELHANLARALQVQKEVRAQKLADDLSTLQEKMAATSKEVARLET  
VRKAGEQQETASRELVKEPARAGDRQPEWLEEQQGRQFCSTQAAALQAMEREAEQMGNELERLRAALMESQOQQQE  
ERGQQEREVARLTQERGRAQADLALKAARAELEMRLQNALNEQRFVATLQEAALAHALTEKEGKDQELAKLRGL  
EAAQIKELEELRQTVKQLKEQLAKKEKEHASGSGAQSEAAGRTEPTGPKLEALRAEVSKLEQQCQKQEQEQADSLE  
RSLEAERASRAERDSALETQCGQLEEKQAEELGHSQSALASAQRELAFAFRKVDHSDKAEDWKAAQVARGRQEAER  
KNSLISSLEEEVSILNRQVLEKEGESKELKRLVMAESEKSQKLEERLRLQLAETASNSARAAERSSALREEVQSL  
REEAEKQRVASENLRLQELTSAERAEELGQELKAWQEKFFQKEQALSTLQLEHTSTQALVSELLPAKHLCCQLQA  
EQAAAEKRHREELEQSKQAAGGLRAELLRAQRELGELIPLRQKVAEQERTAQQLRAEKASYAEQLSMLKKAHGLL  
AEENRGLGERANLGRQFLEVELDQAREKYVQELAAVRADAETRLAEVQREASTARELEVMTAKYEGAKVKVLEE  
RQRFQEEERQKLTAQVEQLEVFQREQTKQVEELSKKLADSDQASKVQQKLVQVQAGGESQQAQRLQAQLNELQ  
AQLSQKEQAAEHYKLQMEKAKTHYDAKKQONQELQEQRLSLEQLKENKELRAEAERLGHELQQAAGLKTKEAEQT  
CRHLTAQVRSLEAQVAHADQQLRDLGKFQVATDALKSREPQAKPQLDLSIDSLDLSCEEETPLSITSKLPRTQPD  
GTSVPGEPASPIQRLPPKVESLESYFTPIPARSQAPLESSLDSLGDVFLDSGRKTRRSARRRTTQIINITMTKK  
LDVEEPDSANSSFYSTRSAPASQASLRATSSSTQSLARLGSPDYGNSALLSLPGYRPTTRSSARRSQAGVSSGAPP  
GRNSFYMGTCQDEPEQLDDWNRIAELOQRNRVCPHLKTCYPLESRPSLSLGTITDEEMKTGDPQETLRRASMQP  
IQIAEGTGITTRQQRKRVSLEPHQGPPTPESKKATSCFPRPMTPRDRHEGRKQSTTEAQKKAAPASTKQADRRQS  
MAFSILNTPKKLGNSLLRRGASKKALSASPNTSRSGTTRSPRIATTTASAATAAAIGATPRAKGKAKH

3602/6881

**FIGURE 3320**

GGGGGGGAGCGGGGAAAAACAAAAGGAGACGAAGGACGCATGCGTTTGGTGAGTCCCGGATTCTGGTGGGTTCCTC  
CGCTCAGGCTGGGTGAAGCGCTTCCGGGTGCGCGCCGGCAGCAGCCTCCCGGCGCGATGAAGACACTGAGGCTCA  
GAGAGGTTAAGTGACTCAGCCAAGGTCAAACAGCTAGTAAGTGGTGGAGCCAGGACTCAAAGCCAGTCTAGGAGC  
**CATGT**CCACTTTGTTCCTCACTCTTCCCTCGTGTGACTGAGACTCTGTGGTTTAATCTGGATCGACCCTGTGT  
GGAAGAGACAGAGCTGCAGCAGCAGGAACAGCAGCATCAGGCCTGGCTCCAAAGCATCGCGGAGAAAGACAACAA  
CCTGGTTCCTATTGGCAAGCCAGCCTCAGAGCACTATGATGACGAGGAAGAAGAGGATGATGAAGATGATGAGGA  
TAGTGAAGAGGACTCAGAGGATGATGAGGATATGCAGGACATGGACGAGATGAATGACTACAATGAGTCACCGGA  
TGATGGAGAGGTCAATGAGGTGGACATGGAAGGCAACGAACAGGATCAGGACCAGTGGATGATC**TAG**GTAGACAA  
GGCAGGGTGGCCTCAGGGAGATTCCAGGCCAGCCAAACTACCCTGCATCCCAACCCCAACCCCTGCCACAGA  
ACCAGCTGATGGCCCCAGTGCCTGAAAGTGCCCTTGGGCACCTCCTCAGCTGCTGCCAGGATCTGGTCTCTTTGG  
CCCCCTCCAGGCCATCAGTCTGCACTTGAAATCCCCAGGGCCTGAAACCTACTCCACCTTCTGGCCAGTACCTC  
ACCCCTTGATTGCCAGGTCTGGTCTAAGTTTCTTTAATAAAGACAAAGGAGTGATTTTCAAAAAAAAAAAAAAA  
AA

3603/6881  
**FIGURE 3321**

MSTLFPSLFPRVTETLWFNLDRPCVEETELQQQEQQHQAWLQSI AEKDNNLVPIGKPASEHYDDEEEDEDED  
SEEDSEDEDMDMDDEMNDYNESPDGGEVNEVDMEGNEQDQDQWMI



3604/6881  
FIGURE 3322A

CTGAGGCCGGCGCTGCAGGCAGCGGGCGGCTGCGCGGTGAACGAGGCGGCCCTGCGCGGCGGAGTGCTGAGTCCCGA  
TCCCCGGCTCTGTCCGGCCACGGATCCTCAAGCCCGGGCCCCGGGCCCGGCCAGCCTCAGCCCTGAGCGTCT  
CGGGGCGGATGGCGCGGGCGGCGGGGGCGGGCGGTGCTGAGCCCTGCGCGGGCCATGCGCTCGGCTGCGGGGC  
GCGGGGCCCCGGGGGCGCCCTGGGCAGCCAGGCCCCCTCCTGGTACCACCGGACCTGAGCCGGCGGGCCGCGGA  
GGAGCTGCTGGCCCCGGGCGGGCCGCGATGGCAGCTTCTGGTCCGAGACAGCGAGAGCGTGGCGGGGCGCTTCGC  
GCTCTGCGTCTGTATCAGAAGCATGTGCACAGTATCGCATTCTGCCTGATGGAGAAGATTTCTTGGCTGTGCA  
GACCTCGCAGGGTGTGCTGTGCGCCGCTTCCAGACCCTGGGTGAGCTCATCGGCTGTACGCCAGCCCAACCA  
GGGCTTGTGTGCGCCCTGCTTCTTCTGTAGAGGTGAGCGAGAGCCGGACCCACCGGATGACCGGGATGCGCTC  
AGATGGGGAGGATGAGAAGCCCCGCTGCCCCGCGCTCTGGCTCCACCAGCATTTCTGCCCCACTGGGCCCAG  
CAGTCCCCTGCCAGCTCCTGAGACTCCACAGCTCCAGCTGCTGAGAGTGCTCCCAATGGGCTGAGCACCCTCTC  
GCACGACTACCTGAAAGGCAGCTATGGGCTGGACCTGGAAGCTGTGAGGGGTGGAGCCAGCCACCTGCCCCACCT  
CACCCGTACCCTCGCTACCTCATGCCGGAGGTGCACAGTGAGGTGGACAAGGTCTGTGAGGCTGGAGATCCT  
GTCCAAGGTGTTTGACCAGCAGAGCTCGCCCATGGTGACCCGCTTTTGAGCAGCAGAACCTGCCACAGACAGG  
GGAGCAGGAAGTAGAGAGCCTGGTGCTGAAGCTGTGAGTGTAAAGGACTTCTGTGAGGCATCCAGAAGAAGGC  
CCTGAAGGCCCTACAGGACATGAGCTCCACAGCACCCCGAGTCCGAGCCATCCACAGTAAGGCCAAGACCAT  
CCCCGTGCAGGCTTTGAGGTGAAGCTAGATGTGACCTGGGTGACCTGACCAAGATTGGGAAGTCACAGAAGTT  
CAGCGTGAGCGTGATGTGGAGGGTGGGCGGCTGGTGCTGCTGCGGAGACAGCGGGACTCCCAGGAGGACTGGAC  
CACCTTCACGCACGACCGCATCCGCCAGCTCATTAGTCCAGCGTGTCCAGAACAAGCTGGGTGTGTGTTGA  
GAAGGAGAAGGACCGGACTCAGCGCAAGGACTTCATCTTTGTGAGTCCCGGAAGCGGGAGGCGCTTCTGCCAGCT  
GTTGCAGCTCATGAAGAACAAGCACTCCAAGCAGGACGAGCCGACATGATCTCAGTCTTCATAGGACCTGGAA  
CATGGGAAGTGTACCACCTCCAAAAACGTGACATCCTGGTTACATCGAAGGGTCTGGGGAAGACCTGGACGA  
GGTCACAGTGACCATACCCATGACATCTATGTCTTTGGGACCCAGGAGAAGTCTAGTGGGCGACCGCGAGTGGCT  
GGACCTACTGCGCGGGGGCTCAAGGAGCTTACGGATCTGGATTACCGCCCGATTGCCATGCAATCACTGTGGAA  
TATCAAGGTGGCAGTGCTGGTCAAGCCAGAGCAGAGAACCGTATCAGCCATGTGAGTACGTCCAGTGTGAAGAC  
TGGCATCGCCAACACCTTGGGGAACAAGGGGGCTGTGGGCGTCTCCTTCATGTTTAAATGGCACCTCATTGGCTT  
TGTGAATTGTACCTCACCTCGGGAATGAGAAGACGGCTCGGAGGAACCAAACTACTTGGACATCCTGCGGCT  
GCTCTCGCTGGGCGACCGGCAGCTCAATGCCTTTGACATCTCTCTGCGTTTACACACCTCTTCTGGTTTGGGGA  
CCTCAACTACCGCTGGACATGGATATCCAGGAGATCCTGAAGTACATCAGCAGGAAGAGTTTGGCCCTCCT  
CAGGGTGGACAGCTCAACCTGGAGCGGGAGAAGCAAGGTCTTCTTCGATTAGTGAGGAGGAGATCTCCTT  
CCCACCCACCTACCGCTATGAGCGGGGTTCCCGGGACACATATGCCTGGCACAAGCAGAAGCCAAGTGGGTCCG  
GACCAATGTGCCCTCATGGTGTGACCGGATTCTGTGAAATCCTACCTGAAACTCACATCATCTGCAATTCTTA  
TGTTGCACTGATGACATCGTCACAGCGACCATCCCCCGTGTGGGACATTTGAGGTTGGAGTTACCTCCCA  
GTTTATCTCCAAGAAAGGGCTCTCAAAGACTTCAGACCAGGCCTACATTGAGTTTGAGAGCATCGAGGCCATTGT  
GAAGACAGCCAGCCGACCAAGTTCTTCATCGAGTTTACTCTACCTGCCTGGAGGAATACAAGAAGAGCTTGA  
GAATGATGCCAGAGCAGTGACAACATCAACTTCTCAAAGTGCAGTGGTCTTCACGCCAGCTGCCACGCTCAA  
ACCAATTCTGGCTGATATCGAGTACCTGCAGGACCAGCACCTCCTGCTCACAGTCAAGTCCATGGATGGCTATGA  
ATCCTATGGGGAGTGTGTGGTTGCACTCAAATCCATGATCGGCAGCACGGCCCAACAGTTCTTGACCTTCTATC  
CCACCGTGGCGAGGAGACAGGCAATATCAGAGGCTCCATGAAGGTGCGGGTGCCACGGAGCGCCTGGGCACCCG  
TGAGCGGCTCTACGAGTGGATCAGCATTGATAAGGATGAGGCAGGAGCAAAGAGCAAAGCCCCCTCTGTGTCCCG  
AGGGAGCCAGGAGCCAGGTGAGGAGCCGCAAGCCAGCCTTACAGAGGCTCCTGCCCCGCTCTCCAGGTTATT  
TGAAGAACCAGAGAAACCGCCACCAACGGGGAGGCCCCAGCCCCACCCGAGCAGCTCCCCGGGAGGAGCCCTT  
GACCCCCAGGTTGAAGCCAGAGGGAGCTCCTGAACCAGAAGGGGTGGCGGCCCCCCCCACCAAGAACAGCTCAA  
TAACCCTGCCTACTACGTCTTGAAGGGGTCCCGCACCAGCTGCTGCCCCGGAGCCACCTCGCCTGCCAGGGC  
CCCTGTCCCATCTGCCACCAAGAACAAAGTGGCCATTACAGTGCCTGCTCCACAGCTTGGGCACCAACGGCACCC  
TCGTGTGGGAGAGGGGAGTTCTTACAGATGAGGAGTCTGGAGGCACACTGCCCCCTCAGACTTCCACCTCCACC  
ACTGCCGGAAGTACGCCATCTTCTGCCCCCAGCCTGGATCCTTTACAGGGCCAGTGGTCCGGGGCGGTGGTGG  
GGCTGAGGCCCCGTGGCCACCACTCCCAAGGCCATCCAAGGCCTCCACTGCCCCCAGGCCCCCTCACCAGCCAG  
CACTTCTGCGGGGAGTGGGCAGTGGGGATGACCGGTCTGCTCGGTGCTGCAGATGGCCAAGACGCTGAGCGA

3605/6881  
**FIGURE 3322B**

GGTGGACTATGCCCCTGCTGGGCCTGCACGCTCAGCGCTCCTCCCAGGCCCCCTGGAGCTGCAGCCCCCGGGG  
ACTGCCCTCGGACTATGGCCGGCCCCCTCAGCTTCCCTCCACCCCGCATCCGGGAGAGCATCCAGGAAGACCTGGC  
AGAGGAGGCTCCGTGCCTGCAGGGCGGGCGGGCCAGCGGGCTGGGCGAGGCAGGCATGAGTGCCTGGCTGCGGGC  
CATCGGCTTGGAGCGCTATGAGGAGGGCCTGGTGCATAATGGCTGGGACGACCTGGAGTTTCTCAGTGACATCAC  
CGAGGAGGACTTGGAGGAGGCTGGGGTGCAGGACCCGGCTCACAAGCGCCTCCTTCTGGACACCCTGCAGCTCAG  
CAAGTGATAGCGGAGGCACCACGAAGCTGTGAACTCAGAGCCCCTCCCTGCTACCAAGGCCCAGCTATGGCCCCA  
GGGTTGAAAAGTTATGAGGGTCAGGGCAGTATCTCTCTGCCTATTTATTGGGGTGCCTATTTATTGGGGATCTGC  
ATTCCCCGCTGCCCAATCATTGCAATGCCCTAATTAGGGCATCCTGCCCCCTCGCCTTTTAGGCTCAGGACGGAA  
GGTCAGTTGCCATGGTTACCGAGGACCCTGGTTACTCTGGTGTCTCTGTTTTACTGGACCCCGCCTCCCAGCC  
CCAGGGGTGCCTGTGGGGGTCCATTGGGTACGTCTGGGCCCCCACTTTCACCAGTTTCTGCGGCCTTCCACCGG  
GCCTGAACCACAGCGGAGGAGCTCCGCTAAGACCTCCCCACCCCGCTGGGGGTGGGGCGGGTGTCCGTCCGGA  
AATGAAGGAATAGCCCAGGACCGGGCTGGGGTTTATTAACTGTTCTGTGTGGGTCTGGGGAGGGAGAGCACC  
TTAATATTATTGGGGTTGGTTGGGGTGGGGCAGGATCTCAGCCATAAAGTGCCAGTTTGCTTAGTTCTCACTGTC  
TCCTGGTCTGTGCTGCCCTGCTCTGGGGATGCACGGCGGCAGGGTGGGGGAGGGAGGTTTCTCGCAGGTCTCAGC  
CCGGGACAGGGTCTTGCAAGCAGCCTCCTGGGCAGTCGTAAGGGTTGCGGCGTGATGTCTTCAATAAATTAAGTT  
TTATTTGGAAAA

3606/6881  
**FIGURE 3323**

MASACGAPGPGGALGSQAPSWYHRDLSRAAAEELLARAGRDGSFLVRDSESVAGAFALCVLYQKHVHTYRILPDG  
EDFLAVQTSQGVPPVRRFQTLGELIGLYAQPNQGLVCALLLPVEGEREPDPPDDRDASDGEDEKPPLPFRSGSTSI  
SAPTGPSSPLPAPETPTAPAAESAPNGLSTVSHDYLGKSYGLDLEAVRGGASHLPHLTRTLATSCRRLHSEVDKV  
LSGLEILSKVFDQSSPMVTRLLQQQNLPTGEQELESVLKLSVLKDFLSGIQKKALKALQDMSSTAPPAPQPS  
TRKAKTIPVQAFEVKLDVTILGDLTKIGKSQKFTLSVDVEGGRLVLLRRQRDSQEDWTTFTHDIRIQLIKSQRVQN  
KLGVVFEKEKDRTQRKDFIFVSARKREAFQQLQLMKNKHSKQDEPDMISVFIGTWNMGSVPPPKNVTISWFTSKG  
LGKTLDEVTVTIPHDIYVFGTQENSVGDREWLDLLRGGLKELTDLDYRPIAMQSLWNIKVAVLVKPEHENRISHV  
STSSVKTGIANTLGNGGAVGVSMFNGTSFGFVNCHLTSGNEKTARRNQNYLDILRLLSLGDRLNAFDISLRFT  
HLFWFGDLNYRLDMDIQEILNYISRKEFEPLLRVDQLNLEREKHKVFLRFSEEEISFPPTYRYERGSRDYAWHK  
QKPTGVRTNVPSWCDRIWKSYPETHIICNSYGCTDDIVTSDHSPVFGTFEVGVT SQFISKKGLSKTSDQAYIEF  
ESIEAIVKTASRTKFFIEFYSTCLEEYKKSFENDAQSSDNINFLKVQWSSRQLPTLKPILADIEYLQDQHLLLT  
KSMGDYESYGEVCVVALKSMIGSTAQQFLTFLSHRGEETGNIRGSMKVRVPTERLGTRERLYEWISIDKDEAGAKS  
KAPSVSRGSQEPRSGSRKPAFTEASCPLSRLFEEPEKPPPTGRPPAPPRAAPREEPLTPRLKPEGAPEPEGVAAP  
PPKNSFNNPAYYVLEGVPHQLLPPEPPSPARAPVPSATKNKVAITVPAPQLGHHRHPRVGEGBSSDEESGGTLPP  
PDFPPPLPDSAIPLPPSLDPLPGPVVRGRGGAEARGPPPPKAHPRPPLPPGPSPASTFLGEVSGDDRSCSVLQ  
MAKTLSEVDYAPAGPARSALLPGPLELQPPRGLPSDYGRPLSFPPPRIRESIQEDLAEAPCLOGGRASGLGEAG  
MSAWLRAIGLERYEEGLVHNGWDDLEFLSDITEEDLEEAGVQDPAHKRLLLDLTLQLSK

3607/6881  
**FIGURE 3324**

CTTGCGTTGCACCCGGGCTGAGTGGGCCGCGACGGGGCGGGCGGACTCTCGGGCGCTCAGAGCTGGCCTCGGGT  
CCTCGGAGCCTGGCGCTCGAACCTCCCTTCCGACCTCCACCCGGACCCCGACCCCGACCCGGCCTGGCCCGGGCC  
CCGCCCCCGCCCCCGGGCCGATGGACTACTCCTACCTCAATTGCTACGACTCGTGCGTGGCGGCCATGGAGGCG  
TCCGCCTACGGCGACTTTGGCGCCTGCAGCCAGCCGGCGGCTTCCAATACAGCCCCCTGCGGCCGCTTTCCCC  
GCGGCAGGGCCGCCCTGCCCCGCGCTCGGCTCCTCCAATGCGCACTTGGCGCCCTACGCGACCACAGCCCGCG  
CCCTACTCGGCAGTGCCCTACAAGTTCTTCCCAGAGCCATCCGGCCTGCACGAGAAGCGCAAGCAGCGGCGCATC  
CGCACCACGTTTACCAGCGCGCAGCTCAAGGAGCTGGAGCGCGTTTTTCGCTGAGACCCACTACCCCGACATTTAC  
ACGCGTGAGGAGCTGGCGCTCAAGATCGACCTCACTGAGGCTCGCGTGCAGGTCTGGTTCCAGAACCGCCGGGCC  
AAGTTCCGCAAACAGGAGCGCGCGGCCAGCGCCAAGGGCGCGGCGGGCGCGGGCGGCCAAAAAGGGCGAGGCG  
CGCTGCTCCTCCGAGGAÇGACGATTCCAAGGAGTCCACGTGCAGCCCCACGCCCGATAGCACC GCCTCGCTGCCG  
CCGCCGCCTGCGCCCGGCTGGCCAGCCCGCGCCTGAGCCCCAGCCCGCTGCCCGTGCCTACTGGGCTCCGGGCCG  
GGACCTGGGCCGGGGCCACAGCCGCTCAAGGGCGCACTGTGGGCCGCTGTGGCGGGCGGTGGGGCGGGCGGCCT  
GGCGCGGGAGCGGCCGAATACTTAAGGCTTGGCAGCGGCGGAGTCCGGCCCCGGGCCCTTCTCCGGGGTTCTG  
TCCTCCTTTCACCGGAAGCCCGGCCCGCCCTGAAGACCAATCTCTTCTAG

3608/6881  
**FIGURE 3325**

GATAACAAGACCTCTGCCAGAAGAACCATGGCTTTGGAAGGCGGAGTTCAGGCTGAGGAGATGGGTGCGGTCTC  
AGTGAGCCCCCTGCCTCCCTGAACATAGGAAACCCACCTGGGCAGCCATGGAATGGGACAATGGCACAGGCCAGGC  
TCTGGGCTTGCCACCCACCACCTGTGTCTACCGCGAGAACTTCAAGCAACTGCTGCTGCCACCTGTGTATTTCGGC  
GGTGCTGGCGGCTGGCCTGCCGCTGAACATCTGTGTCTATTACCCAGATCTGCACGTCCCGCCGGGCCCTGACCCG  
CACGGCCGTGTACACCCTAAACCTTGCTCTGGCTGACCTGCTATATGCCTGCTCCCTGCCCCTGCTCATCTACAA  
CTATGCCCCAAGGTGATCACTGGCCCTTTGGCGACTTCGCCTGCCGCTGGTCCGCTTCCTCTTCTATGCCAACCT  
GCACGGCAGCATCTCTTCTCACCTGCATCAGCTTCCAGCGCTACCTGGGCATCTGCCACCCGCTGGCCCCCTG  
GCACAAACGTGGGGGCCGCGGGCTGCCTGGCTAGTGTGTGTAGCCGTGTGGCTGGCCGTGACAACCCAGTGCCT  
GCCCACAGCCATCTTCGCTGCCACAGGCATCCAGCGTAACCGCACTGTCTGCTATGACCTCAGCCCGCTGCCCT  
GGCCACCCACTATATGCCCTATGGCATGGCTCTCACTGTCTATCGGCTTCCTGCTGCCCTTTGCTGCCCTGCTGGC  
CTGCTACTGTCTCCTGGCCTGCCGCTGTGCCGCCAGGATGGCCCGCAGAGCCTGTGGCCCAGGAGCGGCGTGG  
CAAGGCGGCCCGCATGGCCGTGGTGGTGGCTGCTGCCTTTGCCATCAGCTTCCTGCCTTTTCACATCACCAAGAC  
AGCCTACCTGGCAGTGCCTCGACGCGGGCGTCCCCTGCACTGTATTGGAGGCCTTTGCAGCGGCCTACAAAGG  
CACGCGGCCGTTTGCCAGTGCCAACAGCGTGTGGACCCCATCCTCTTCTACTTCACCCAGAAGAAGTTCGCGCG  
GCGACCACATGAGCTCCTACAGAACTCACAGCCAAATGGCAGAGGCAGGGTCGCTGAGTCTCCAGGTCTCTGGG  
CAGCCTTCATATTTGCCATTGTGTCCGGGGCACCAGGAGCCCCACCAACCCCAAACCATGCGGAGAATTAGAGTT  
CAGCTCAGCTGGGCATGGAGTTAAGATCCCTCACAGGACCCAGAAGCTCACCAAAAATATTTCTCAGCCCCTT  
CTCTGGCCCAGACCCTGTGGGCATGGAGATGGACAGACCTGGGCCTGGCTCTTGAGAGGTCCAGTCAGCCATGG  
AGAGCTGGGGAAACCACATTAAGGTGCTCACAAAATACAGTGTGACGTGTACTGTCA

3609/6881  
FIGURE 3326

CGCGTCCTGTCCCGGCGCCTTCCGCGCACCGGCCACCGCCAGTCTCCGAGCCCCGTGACCTGCAGGTCTCCGGC  
CGCGACTCCGGGGCCGGCCCTGCGTGGTGGCTGTGCGGGGGGCGCGCGGGGAAGCAGCGGAACCTTGCAGGTGTGAGGG  
GCCGGCGGGGGCCCGAGCGGTCCCCGGCCCCGGGAAACTTGGACCGAGACCAGGCCGGCGACCACCAGGGGCCTGA  
GGATGAAGCCAAGTCTGCTGTGCGGGCCCCCTGTCTGCTTCTTATGCTGCTGCCCTGGCCTCTCGCCACCCCTGA  
CATCAACAACCCCTTTGGCAGTGCCACCTGGGGAGGAGCCCCGACCTGGACCCAGGGCAGGGCACATTATGCAGGC  
CCTGCCCCCAGGCACCTTCTCAGCTGCATGGGGCTCCAGCCCATGCCAGCCCCATGCCCGTTGCAGCCTTTGGA  
GGAGGCTGGAGGCCAGGTGGGCATGGCAACTCGAGATACACTCTGTGGAGACTGCTGGCCTGGGTGGTTTGGGC  
CTTGGGGGGTTCCCCGCGTTCCATGTCAACCATGTTCTGGGCACCTCTGGGTACTCATGGCTGTGATGAGTGGG  
GGCGGCGGGCCCCGACGTGGCGTGGAGGTGGCAGCAGGGGCCAGCAGCGGTGGTGAGACACGGCAGCCTGGGAACG  
GCACCCGGGCAGGTGGCCAGAGGAGACAGCGGCCAGTACGCGGTTCATCGCCATCGTCCCTGTCTTCTGCCTCA  
TGGGGCTGTTGGGCATCCTGGTGTGCAACCTCCTCAAGCGGAAGGGCTACCACTGCACGGCGCACAAGGAGGTG  
GGCCCGGCCCTGGAGGTGGAGGCAGTGGAAATCAACCCCTGCCTACCGGACTGAGGATGCCAATGAGGACACCATTG  
GGGTCTGGTGGCTTGATCACAGAGAAGAAAGAGAATGCTGCGGCCCTGGAGGAGCTGCTGAAAGAGTACCACA  
GCAACAGCTGGTGCAGACGAGCCACAGGCCTGTGTCAAGCTGCCGCCAGCGCCCCCGAACGTGCCACACATCT  
GCCCCGACCGCCACCATCTCCACACCGTGCAGGGCCTGGCCTCGCTCTCTGGCCCCCTGCTGCTCCCGCTGTAGCC  
AGAAGAAGTGGCCCCGAGGTGCTGCTGTCCCTGAGGCTGTAGCCGCCACTACTCCTGTTCCCGACCTTCTGCCTA  
ACCCGACCAAGGGTTCCCAAGGCCGGGGCCAAGGCAGGGCGTCAGGGCGAGATCACCATCTTGTCTGTGGGCAGGT  
TCCGCGTGGCTCGAATTCTGAGCAGCGGACAAGTTCAATGGTGTCTGAGGTGAAGACCATCACGGAGGCTGGGC  
CCTCGTGGGGTGATCTCCCTGACTCCCCACAGCCTGGCCTCCCCCTGAGCAGCAGGCCCTGTAGGAAGTGGCG  
GAAGCCGTACAAAGTGGCTGAAGCCCCCAGCAGAGAACAAGGCCGAGGAGAACCCTATGTGGTCCGGCTAAGTG  
AGAGCAACCTGGTCACTTGAGGGGGCGGTCTAGTCTAAGGACACTGCGGCCCTGCCCTGGGAGGTTCCGAAGGCTT  
CCTGGAGGAGGTGGAGCTGCAGCTGGGACTGTGAGGACCGAGAAGCAATGGCCCAGCAGACGAGACAGCAAAGAC  
CAAGGCCCTGGAGGTGGGAGCGTCTGCCCCAGTGAGGAGGCAGGTGGCCGGCGGGCACTGTGTACAGGAGCAGGCT  
GAGCCCCGCCCTGGCCCTGCTGCCATGTTGCTCCCCCTGAAGGATGCCCCGACCCCCGTGCCCTGCCCTGGCTGGA  
TCCTAGGAGCCCACGGGATTCTCTGTATCATCAGAGGCTGGGCTTGGCAGAGGGGAGGGGCCTGTGCCCGTCAAC  
CCTGGCCCCATTCTTTGGTAATTAGCCACACCCCTTGCCCTCTKTACAGGGCCCTAAGARCAGATGTKCGTYCCCT  
CCTYTTYCAGCAGGTCTATAAAGGGAAAGGGTAGCAGAAAAGTCTGGGCTARGAGAGTGAGTCCCTGGGTTCT  
AATCTTGGGCACATCTGTGSCCATCRCTGGGTCCATTTTTTCTSACTGTGAAGTAAGGAGAGAMGTCTCAGTACCC  
AGGGCCTCTTCAGCTCTTTGTAGGTTCTGGGCTGGGTTGTGGGGGACTGGGGAGCTGGGCTTCTACCAATCCCT  
CCCCAATTAGTAGCTTTTATCCAGCCCCCGTTTTTTGCTGCTTTCCAGGGCCTTCTGCCTTCAAGGCCCCCATG  
GGGCTTGTCCCATCCATGGCTCTGCCTACGGAAGGGGCTTAATGCATGTGCCTGCCCTCCCCCAGCTGTTTTTA  
ATGAACTGAAAAAATAGACTTGATCCCGGCAGGACTGTGATACAGGCCCTAGCCCTGCCCAGCCCAGCCCCAA  
GATCTCAGGAGCTTTAGGGAGAAGACTTGGTGGGGCTGGAGCACACCTTGGGCCTTCAGTGGTTTCTGTGTCCCT  
GTGGTGCCAGTGCTTCTGGGCAGTGCAGGCGGCTGCCAGGCCAGCCCTGACTTCCACTCTGGCTCAGCAACCTG  
GTTATTTATGTGGGGCCGTGCAGGCATGGGCCCACTGCCTGTCCATCCTGTTTCTTATTTATTGAAACTCACC  
ATTGCCCTATCCTTGTGTCTCCACCCCTTCCATGTGTTGAATAATAAAAGGTGGGAAAGTGCAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3610/6881  
**FIGURE 3327**

MKPSLLCRPLSCFLMLLPWPLATLTSTTLWQCPPGEEPDLDPGQGTLCRCPPTGTFSAAWGSSPCQPHARCSLWR  
RLEAQVGMATRDITLCGDCWPGWFGPWGVPVPCQPCSWAPLGTHGCDEWGRARRGVEVAAGASSGGETRQPGNG  
TRAGGPEETAQYAVIAIVPVFCLMGLLGILVCNLLKRKGYHCTAHKEVGPGPGGGSGINPAYRTEDANEDTIG  
VLVRLITEKKENAAALEELLKEYHSKQLVQTSHRPVSKLPPAPPNVPHICPHRHHLHTVQGLASLSGPCCSRCSQ  
KKWPEVLLSPEAVAATTPVPSLLPNPTRVPKAGAKAGRQGEITILSVGRFRVARIPEQRTSSMVSEVKTITEAGP  
SWGDLPDSPQGLPPEQQALLGSGGSRTKWLKPPAENKAEENRYVVRLSESNLVI

3611/6881

**FIGURE 3328**

CTTTCCTCCTGCCGCCGAGTCGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAGATTCAGGTTACCCGTAACCCA  
CTGCCATGGCCGAGGAAGGCATTGCTGCTGGAGGTGTAATGGAGGTTAATACTGCTTTACAAGAGGTGCTGAAGA  
CCGCCCTCATCCACGATGGCCTAGCACGTGGAATTCGCGAAGCTGCCAAAGTCTTAGACAAGCGCCAAGCCCATC  
TTTGTGTGCTTGCATCCAACGTGTGATGAGCCTATGTATGTCAAGTTGGTGGAGGCCCTTTGTGCTGAACACCAAA  
TCAACCTAATTAAGGTTGATGACAACAAGAACTAGGAGAATGGGTAGGCCTCTGTAAAATTGACAGAGAGGGGA  
AACCCCATAAAGTGGTTGGTTACAGTTGTGTAGTAGTTAAGGACTATGGCAAGGAGTCTCAGGCCAAGGATGTCA  
TCGAAGAGTATTTCAAATGCAAGAAATGAAGAAATAAATCTTTGGCTCAC



3612/6881  
**FIGURE 3329**

GGCGGCGGCAGCTGTACAGGGCGGGAGAAGCGGTGGTAGCGGAGGCTGTAGTGGGGCTGGTGGTGCTTCCAAC TG  
CGGGACAGGAAGTGGCCGTAGCGGCTTGTTGGATAAGTGGAAGATAGATGATAAGCCTGTAAAAATTGACAAGTG  
GGATGGATCAGCTGTGAAAACTCTTTGGATGATTCTGCCAAAAAGGTACTTCTGGAAAAATACAAATATGTGGA  
GAATTTTGGTCTAATTGATGGTCGCCTCACCATCTGTACAATCTCCTGTTTCTTTGCCATAGTGGCTTTGATTTG  
GGATTATATGACCCCCCTTTCCAGAGTCCAAACCCGTTTTGGCTTTGTGTGTCATATCCTATTTTGTGATGATGGG  
GATTCTGACCATTATACCTCATATAAGGAGAAGAGCATCTTCTCGTGGCCACAGGAAAGATCCTACAGGAAT  
GGATCCTGATGATATTTGGCAGCTGTCTCCAGTCTTAAAGGTTTGATGACAAATACACCTTGAAGCTGACCTT  
CATCAGTGGGAGAACAAGCAGCAGCGGGAAGCCGAGTTCACAAAGTCCATTGCTAAGTTTTTTGACCACAGTGG  
GACACTGGTCATGGATGCATATGAGCCTGAAATATCCAGGCTCCATGACAGTCTTGCCATAGAAAGAAAAATAAA  
GTAGCCAATTCTAAAAGTAGCCCTCTTTCTCCIGGATCTTGCTGAATTAGTGGCTTGGGGGGTGGGGGAGATAAA  
AAGAACTTAAATGGGTAAAGTAAGAAATGTTAAAAAGTCCCTGTTTTGTCTGAAATTTTAGTCTATTCTGGGT  
AAATAGGATTTTCTGACACAGATATGAGAAGTTGTAGCTCTGATGTCTAGCTGTAGTCTCCTTGATCTGCTGATT  
GCATTATTTTAATTTGCTTTTCTGGGAAAGCAGTTTTGCTAAAAGCTGTACAGACTTTTTCTTTGTACCTAGCA  
GTACTTTATATAGTATAGCTTTGGGCCATGTAGCATTTTAAGACTCAATTTTAAAAAATTATTAATCTGTTGCTG  
ACTCTTAATTCCTATTTCAATATGTGTTTCTTGAAGAATTCAGGATACAACCTTCTTGTGTATGACAGCTTTCCT  
TCACACACTATTTTGTGGGTGTGTATATATCTGATTTGGGAAGAATTTAAAAAACACATAGCTTTTTAATTTGT  
TTGAAACAGACTTTCTGCCTGTTACATTTTGTCTTTTAAACCAATTAAAGAAGCCAATGGCATTTTAGTTTTATAT  
TGTGTTTTCCACTAGTATATCCCTGTTGATTTGTTTGTGCCTTTTATTAAGTCCATTTTCTAAAATTTTTTCA  
ATAAAAGGAAGGAAGATGTG

3613/6881  
**FIGURE 3330**

MHPFPESKPVLALCVISYFVMMGILTIYTSYKEKSIFLVAHRKDPTGMDPDDIWQLSSSLKRFDDKYTLKLTFFIS  
GRTKQQREAEFTKSIKFFDHSGTLVMDAYEPEISRLHDSLAIERKIK

3614/6881  
**FIGURE 3331**

GCGGAGCGCGGCGGCAAGATGGCAGTGCAAATATCCAAGAAGAGGAAGTTGTGCTGATGGCATCTTCAAAGCT  
GAACTGAATGAGTTTCTTACTCGGGAGCTGGCTGAAGATGGCTACTCTGGAGTTGAGGTGCCAGTTACACCAACC  
AGGACAGAAATCATTATCTTAGCCACCAGAACACAGAATGTTCTTGGTGAGAAGGGCCGGCGGATTGCGGAAGT  
ACTGCTGTAGTTCAGAAGAGGTTTGGCTTTCCAGAGGGCAGTGTAGAGCTTTATGCTGAAAAGGTGGCCACTAGA  
GGTCTGTGTGCCATTGCCCAGGCAGAGTCTCTGCGTTACAACTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGC  
TATGGTGTGCTGCGGTTTCATCATGGAGAGTGGGGCCAAAGGCTGCGAGGTTGTGGTGTCTGGGAACTCCGAGGA  
CAGAGGGCTAAATCCATGAAGTTTGTGGATGGCCTGATGATCCACAGCGGAGACCCTGTAACTACTACGTTGAC  
ACTGCTGTGCGCCACGTGTTGCTCAGACAGGGTGTGCTGGGCATCAAGGTGAAGATCATGCTGCCCTGGGACCCA  
ACTGGTAAGATTGGCCCTAAGAAGCCCCTGCCTGACCACGTGAGCATTGTGGAACCCAAAGATGAGATACTGCCC  
ACCACCCCATCTCAGAACAGAAGGGTGGGAAGCCAGAGCCGCTGCCATGCCCCAGCCAGTCCCCACAGCATAA  
  
CAGGGTCTCCTTGGCAGCTGTATTCTGGAGTCTGGATGTTGCTCTCTAAAGACCTTTAATAAAATTTGTACAAA  
GACAAAAAAAAAAAAAAAAA

3615/6881  
**FIGURE 3332**

MAVQISKRRKFVADGIFKAELNEFLTRELAEDGYSGVEVRVTPTRTEIIILATRTQNLGEKGRRIRELTAVVQK  
RFGFPEGSVELYAEKVATRGLCAIAQAESLRYKLLGGLAVRRACYGVLRFIMESGAKGCEVVVSGKLRGQRAKSM  
KFVDGLMIHSGDPVNYVDTAVRHVLLRQGVLGKVKIMLPWDPTGKIGPKKPLPDHVSIVEPKDEILPTTPISE  
QKGGKPEPPAMPQPVPTA

3616/6881  
**FIGURE 3333**

GTGCGGGCTCGAGAGCGAGAGTCACGTCCCGGGCTAGCCCAGCCGACCCAGGCCACCGTGGTGCACGCAAAC  
CACTTCCTGGCCATGCGCTCCCTCCTGCTTCTCAGCGCCTTCTGCCTCCTGGAGGCGGCCCTGGCCGCCGAGGTG  
AAGAAACCTGCAGCCGAGCAGCTCCTGGCACTGCGGAGAAGTTGAGCCCCAAGGCGGCCACGCTTGCCGAGCGC  
AGCGCCGGCCTGGCCTTCAGCTTGTACAGGCCATGGCCAAGGACCAGGCAGTGGAGAACATCCTGGTGTACCCC  
GTGGTGGTGGCCTCGTCGCTGGGGCTCGTGTGCTGGGCGGCAAGGCGACCACGGCGTCGAGGCCAAGGCAGTG  
CTGAGCGCCGAGCAGCTGCGCGACGAGGAGGTGCACGCCGGCCTGGGCGAGCTGCTGCGCTCACTCAGCAACTCC  
ACGGCGCGCAACGTGACCTGGAAGCTGGGCAGCCGACTGTACGGACCCAGCTCAGTGAGCTTCGCTGATGACTTC  
GTGCGCAGCAGCAAGCAGCACTACAACCTGCGAGCACTCCAAGATCAACTTCCGCGACAAGCGAGGCCGCTGCAG  
TCCATCAACGAGTGGGCCGCGCAGACCACCGACGGCAAGCTGCCCCGAGGTACCAAGGACGTGGAGCGCACGGAC  
GGCGCCCTGTTAGTCAACGCCATGTTCTTCAAGCCACACTGGGATGAGAAATTCCACCACAAGATGGTGGACAAC  
CGTGGCTTCATGGTGACTCGGTCTTATACCGTGGGTGTATGATGATGCACCGGACAGGCCTCTACAACCTACTAC  
GACGACGAGAAGGAAAAGCTGCAAATCGTGGAGATGCCCCGGGCCACAAGCTCTCCAGCCTCATCATCCTCATG  
CCCCATCACGTGGAGCCTCTCGAGCGCCTTGAAAAGCTGCTAACCAGAGCAGCTGAAGATCTGGATGGGGAAG  
ATGCAGAAGAAGGCTGTTGCCATCTCCTTGCCCAAGGGTGTGGTGGAGGTGACCCATGACCTGCAGAAACACCTG  
GCTGGGCTGGGCCTGACTGAGGCCATTGACAAGAACAAGGCCGACTTGTACGCATGTCAGGCAAGAAGGACCTG  
TACCTGGCCAGCGTGTTCACGCCACCGCCTTTGAGTTGGACACAGATGGCAACCCCTTTGACCAGGACATCTAC  
GGGCGCGAGGAGCTGCGCAGCCCCAAGCTGTTCTACGCCGACCACCCCTTCATCTCCTAGTGGGGACACCCAA  
AGCGGCTCCCTGCTATTTCATTGGGCGCCTGGTCCGGCCTAAGGGTGACAAGATGCGAGACGAGTTATAGGGCCTC  
AGGGTGCACACAGGATGGCAGGAGGCATCCAAAGGCTCCTGAGACACATGGGTGCTATTGGGGTTGGGGGGGAGG  
TGAGGTACCAGCCTTGATACTCCATGGGGTGGGGGTGAAAAGCAGACCGGGTTCCTGTGCTGAGCGGAC  
CTTCCCAGCTAGAATTCACCTCACTTGGACATGGGCCCCAGATACCATGATGCTGAGCCCGGAACTCCACATCC  
TGTGGGACCTGGGCCATAGTCATTCTGCCTGCCCTGAAAGTCCCAGATCAAGCCTGCCTCAATCAGTATTTCATAT  
TTATAGCCAGGTACCTTCTCACCTGTGAGACCAAATTGAGCTAGGGGGGTGAGCCAGCCCTCTTCTGACACTAAA  
ACACCTCAGCTGCCTCCCCAGCTCTATCCCAACCTCTCCCACTATAAACTAGGTGCTGCAGCCCCCTGGGACCA  
GGCACCCCCAGAATGACCTGGCCGAGTGAGGCGGATTGAGAAGGAGCTCCAGGAGGGGCTTCTGGGCAGACTC  
TGGTCAAGAAGCATCGTGTCTGGCGTTGTGGGGATGAACCTTTTTGTTTTGTTTCTTCTTTTTTAGTTCTTCAA  
GATAGGGAGGGAAGGGGAACATGAGCCTTTGTTGCTATCAATCCAAGAACTTATTGTACATTTTTTTTTTCAA  
TAAACCTTTTCCAATGACATT

3617/6881  
**FIGURE 3334**

MRSLLLLSAFCLLEAALAAEVKKPAAAAAPGTAEKLSPKAATLAERSAGLAFSLYQAMAKDQAVENILVSPVVVA  
SSLGLVSLGGKATTASQAKAVLSAEQLRDEEVHAGLGELLRSLSNSTARNVTWKLGSRLYGPSSVSFADDFVRSS  
KQHYNCEHSKINFRDKRRPLQSINEWAAQTTDGKLEVTKDVERTDGALLVNAMEFFKPHWDEKFHHKMVDNRGFM  
VTRSYTVGVMMHRTGLYNYDDKEKQLQIVEMPLAHKLSSLIILMPHHVEPLERLEKLLTKEQLKIWMGKMQKK  
AVAISLPKGVVEVTHDLQKHLAGLGLTEAIDKNKADLSRMSGKKDLYLASVFHATAFELDTDGNPFDQDIYGREE  
LRSPKLFYADHFFIFLVRDTQSGSILFIGRLVRPKGDKMRDEL



3619/6881  
**FIGURE 3335B**

TCCTTTCTGTGCCTCATCATGCAAGGATCTTTTTTCCCTCTTACAAAAACAGGTAAAAAGCCTCACCCAGATGAC  
CCCCATCCCTCATACCATGGAGTCATGAGCTGTCTGGGAAGAATGGACGTGCTGGGACCAACTCAAGACCTTGTT  
TTGCTGTCTTCATCATCTTACCTGTGCTTGGCCACAGTCTGGCTCATGATGTGGGCTCAGTAATGTGCGAGAAA  
GTGAAAATGCCACTCTCTCCACCCCATTTTACAGAGGAGAACACCAAGGCCAGAGGAAGTTAAGGGAGAGTCAA  
TGGGCAGAGCCAGGGCTAGGCCCTGGTGGTGTGTGGAGCACCCAGGCAGACCCAGTCCTGGTTGGGATCACACCC  
ACGGGTGCTACTGCACGTAACACTCCTCCTTAGGCCTGGAGGCCAAGGTGTGGGTCCCCACGCCTGATCTTTGAA  
AACACTACACAGGGCTGCTGTCACTTCCCAGGGCCCAGGCCTCAGCCCAGGCCTCGGGACCAACTCTTGTATAA  
CCTACCTGAATGTATTAAAACTAATTTTGG



3620/6881  
**FIGURE 3336**

ATGGATAGAATGGTGCTATCTGAGCTGTTATAATGTTGGCCTCATGCCTAGCTTTATATTGCAGCACGCTCTGAGG  
CATTGGTTTTTTCATCCTTCCAAACTTTTGGTCTACAGAGACTATTAGAAGATTAAGTAGCTGCTGCTGGTGGTGA  
CAATGTCAAATAACGGCCTAGACATTCAAGACAAACCCCCAGCCCCTCCGATGAGAAATACCAGCACTATGATTG  
GAGCCGCGCAGCAAAGATGCTGGAACCCTAAACCATGGTCTAAACCTCTGCCTCCAAACCCAGAGGAGAAGAAAA  
AGAAGGACCGATTTTACCGATCCATTTTACCTGGAGATAAAACAAATAAAAAGAAAGAGAAAGAGCGGCCAGAGA  
TTTCTCTCCCTTCAGATTTTGAACACACAATTTCATGTCGGTTTTGATGCTGTCACAGGGGAGTTTACGGGAATGC  
CAGAGCAGTGGGCCCGCTTGCCTTCAGACATCAAATATCACTAAGTCGGAGCAGAAGAAAAACCCGAGGCTGTTC  
TGGATGTGTTGGAGTTTTACAACCTCGAAGAAGACATCCAACAGCCAGAAATACATGAGCTTTACAGATAAGTCAG  
CTGAGGATTACAATTCTTCTAATGCCTTGAATGTGAAGGCTGTGTCTGAGACTCCTGCAGTGCCACCAGTTTCAG  
AAGATGAGGATGATGATGATGATGATGCTACCCACCACCAGTGATTGCTCCACGCCAGAGCACACAAAATCTG  
TATACACACGGTCTGTGATTGAACCACTTCCTGTCACTCCAACCTCGGGACGTGGCTACATCTCCCATTTACCTA  
CTGAAAATAACACCCTCCACCAGATGCTTTGACCCGGAATACTGAGAAGCAGAAGAAGAAGCCTAAAATGTCTG  
ATGAGGAGATCTTGGAGAAATTACGAAGCATAGTGAGTGTGGGCGATCCTAAGAAGAAATATACACGGTTTGAGA  
AGATTGGACAAGGTGCTTCAGGCACCGTGTACACAGCAATGGATGTGGCCACAGGACAGGAGGTGGCCATTAAGC  
AGATGAATCTTCAGCAGCAGCCCCAAGAAAGAGCTGATTATTAATGAGATCCTGGTCATGAGGGAAAACAAGAACC  
CAAACATTGTGAATTACTTGGACAGTTACCTCGTGGGAGATGAGCTGTGGGTTGTTATGGAATACTTGGCTGGAG  
GCTCCTTGACAGATGTGGTGACAGAACTTGCATGGATGAAGGCCAAATTGCAGCTGTGTGCCGTGAGTGTCTGC  
AGGCTCTGGAGTTCTTGCAATTCGAACCAGGTCATTCACAGAGACATCAAGAGTGACAATATTCTGTTGGGAATGG  
ATGGCTCTGTCAAGCTAACTGACTTTGGATTCTGTGCACAGATAACCCAGAGCAGAGCAAACGGAGCACCATGG  
TAGGAACCCCATACTGGATGGCACCAGAGGTTGTGACACGAAAGGCCATGGGCCCAAGGTTGACATCTGGTCCC  
TGGGCATCATGGCCATCGAAATGATTGAAGGGGAGCCTCCATACCTCAATGAAAACCCCTCTGAGAGCCTTGATACC  
TCATTGCCACCAATGGGACCCAGAACTTCAGAACCCAGAGAAGCTGTGAGCTATCTTCCGGGACTTTCTGAACC  
GCTGTCTCGAGATGGATGTGGAGAAGAGAGGTTTCAGCTAAAGAGCTGTACAGGTGAGAAAACCTGAGGTTTCAAG  
TGTTTAGTAACTTTTCCATGATAGCTGCATCAATTCTGAAGATTGCCAAGCCCCTCTCCAGCCTCACTCCACTG  
ATTGCTGCAGCTAAGGAGGCAACAAGAACAATCACTAAAACCACACTACCCCCAGCCTCATTGTGCCAAGCCTT  
CTGTGAGATAAATGCACATTTAGAAATCCAACCTCTGATGCCCTCTTCTCCTTGCCCTTCTCTCCATTTCC  
TGATCTAGCACTCCTCAAGACTTTGATCCTTGAAACCGTGTGTCCAGCATTGAAGAGAACTGCAACTGAATG

3621/6881  
**FIGURE 3337**

GTGACTGCCTCTTCCAGGGCGGGCGGTGTGGTGCACGCATTGCTGTGCTCCAACCTCCCTCAGGGCCTGTGTTGCC  
GCACTCTGCTGCTATGAGCTTCCTCAAAAGTTTCCCGCCGCCTGGGCCAGCGGAGGGGCTCCTGCGGCAGCAGCC  
AGACACTGAGGCTGTGCTGAACGGGAAGGGCCTCGGCACTGGTACCCTTTACATCGCTGAGAGCCGCTGTCTTG  
GTTAGATGGCTCTGGATTAGGATTCTCACTGGAATACCCACCATTAGTTTACATGCATTATCCAGGGACCGAAG  
TGACTGTCTAGGAGAGCATTGTGTATGTTATGGTGAATGCCAAATTTGAAGAAGAATCAAAGAACCTGTTGCTGA  
TGAAGAAGAGGAAGACAGTGATGATGATGTTGAACCTATTACTGAATTTAGATTTGTGCCTAGTGATAAATCAGC  
GTTGGAGGCAATGTTCACTGCAATGTGCGAATGCCAGGCCTTGCATCCAGATCCTGAGGATGAGGATTCAGATGA  
CTACGATGGAGAAGAATATGATGTGGAAGCACATGAACAAGGACAGGGGGACATCCCTACATTTTACACCTATGA  
AGAAGGATTATCCCATCTAACAGCAGAAGGCCAAGCCCACTGGAGAGATTAGAAGGAATGCTTTCTCAGTCTGT  
GAGCAGCCAGTATAATATGGCTGGGGTCAGGACAGAAGATTCAATAAGAGATTATGAAGATGGGATGGAGGTGGA  
TACCACACCAACAGTTGCTGGACAGTTTGAGGATGCAGATGTTGATCAGTGAATGATTATGCAAGTTTAAGA  
TTCTGCTCCTAAGTGTAGGAGAGAACTTGGTGCCTCTTCCACTCTGGAGTGAAGTTAATGAAAGTCTTTTTCTCT  
TTCCAAAACCAACCTGAACAGTTCTTTCTTGAGACAGACTATACTGAGACAACAAGTTGTCACCAGCAGAAGA  
TAGATAATATGACCTTTATTAACCTTGATGAATTAACCTTAACCAAGAGGGTATTTGTAGTTTACTATTTACCTAA  
AACTTTCTGTGCTCTGGGTACCCTCTGAGTAGGCCTATAATTCCTACCTTGACTGTGTGCATCATTTGTAAGCTAG  
CAGATCTATGTGGTGAATATGCACAGGAGCTTGGTAGACTGCGGGGAAAGAGAGAGCTCCTTTGCGCATGTTTT  
ACCAGTCTGCTGTTATAACCTCTTAGGTTGTATCCTTTAATTTCCAGCCTTTTAGGTTAGTTTCTGTAAACAGAAC  
AAGTGAGTCTGGGATGAAGTCCTCAAAGTACTTCAAATGGTAATTGTTTTGTTTTGTAATAGCTTAACAAATAA  
ACCTAGGTTTTCTATAAA

3622/6881  
**FIGURE 3338**

MSFLKSFPFPGPAEGLLRQQPDTEAVLNGKGLGTGTLTYIAESRLSWLDGSGLGFSLEYPTISLHALSRDRSDCLG  
EHLYVMVNAKFEEESKEPVADEEEEDSDDDDVEPITEFRFVPSDKSALEAMFTAMCECQALHPDPEDSDDDYDGE  
EYDVEAHEQQQGDIPTFYTYEEGLSHLTAEGQATLERLEGMLSQSVSSQYNMAGVRTEDSIRDYEDGMEVDTTPT  
VAGQFEDADVDH

3623/6881  
**FIGURE 3339**

CGTTCTTTGCCGAGAGTCGTCGGGGTTTCCCTGCTTCAACAGTGCTTGGACGGAACCCGGTGCTCGTCCCCACCC  
CAGCCGGCCGCCGCCACCTCTCCTTAGTCGCCGCCATGAGGACCACGTCCACCTCACAGGTGCGCCAGAACTACC  
ACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTAGAGCTCTGTGCCTCCTACGTTTACCTGTCCATGT  
CTTACTGCTTTGACCGTGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTCTTCACCAATCTCATGAGGAGA  
GGGAGCATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCTTCAGGATATCAAAAAAC  
CAGACTGTGATGACTGGGAGAGCGGGCTGAATGTGATGGAGTGTGCATTACATTGGAAAAAATGTGAATCAGT  
CACTACTGGAATGCACAAATTGGCCACTGACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACC  
TGAATGAGCAGGTGAAAGCCATCAAAGAATTGGATGACCATGTGACCAACTTGCACAAGATGGGAGCACTCGAAT  
CTGGCTTGGCAGAATATCTCTTTGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGCTAATT  
TCCCCGTAGCCGTGGGGTGACTTCCCTGGTCACCAAGGCAGTGCATGCATGTTGGGGTTTCTTTACCTTTTCTA  
TAAGTTGTACCAAAACATCCACCTAAGTTCTTTGATTGTGCCATTCTTCAGATGAAGAAATTTGGTACCCCCC  
CCCCAAAAAAAAAAAAAAAAAATC

3624/6881  
**FIGURE 3340**

MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQSHEEREHAEKLMKLQN  
QRGGRIFLQDIKKPCDDWESGLNAMECALHLEKNVNQSLLELHKLATDKNDPHLCDFIETHYLNEQVKAIKELG  
DHVTNLRKMGAPESGLAEYLFDKHTLGDSDNES

3625/6881  
**FIGURE 3341**

GTCGTCGTGGTTTTTCCTTGTAGTTCGTGGTCTGAGACCAGGCCTCAAGTGGAAACGGCGTCACCATGATCGCACG  
GCGGAACCCAGAACCCTTACGGTTTCTGCCGGATGAGGCCCGGAGCCTGCCCCGCCCAAGCTGACCGACCCGCG  
GCTCCTCTACATCGGCTTCTTGGGCTACTGCTCCGGCCTGATTGATAACCTAATCCGGCGGAGGCCGATCGCGAC  
GGCTGGTTTGCATCGCCAGCTTCTATATATTACGGCCTTTTTTTTTTGCTGGATATTATCTTGTA AACGTGAAGA  
CTACCTGTATGCTGTGAGGGACCGTGAAATGTTTGGATATATGAAATTACATCCAGAGGATTTTCCTGAAGAAGA  
TAAGAAAACATATGGTGAAATTTTGA AAAATTCCATCCAATACGTTGAAGTCTTCAAATGCTTGCTCCAGTTT  
CACTGATACCTGCTGTTTCTGAATTTGATGGAACATGTTTCTTATGACAGTTGAAGCTTATGCTAATCTGTATGT  
TGACACCTTGTAATTAAATACGTACCATG

3626/6881  
FIGURE 3342A

ATGAGCGGCGGCGGCGACGTGGTGTGCACCGGCTGGCTGAGGAAATCGCCTCCCGAGAAGAAGTTGAGGCGCTAT  
GCTTGGAAAGAAACGCTGGTTTTATCCTGCGGAGTGGCCGATGAGCGGTGACCCAGATGTTCTGGAATACTACAAG  
AACGATCACTCCAAGAAGCCTCTGCGGATCATCAACCTGAACTTCTGTGAGCAGGTAGATGCAGGCCTGACCTTT  
AACAAAGAAGGAGCTGCAGGATAGTTTTGTGTTTGACATCAAGACCAGTGAACGCACCTTTTACCTGGTGGCTGAG  
ACAGAAGAGGACATGAATAAGTGGGTCCAGAGCATCTGCCAGATCTGTGGCTTCAATCAGGCTGAGGAGAGCACA  
GACTCCCTGAGAAATGTTTCTCAGCCGGTCATGGCCCCGCTCTTCTCCAGCTGAGCTCAGCAGCTCTAGCCAG  
CACCTTCTCCGAGAGCGCAAGTCTCAGCCCCATCACACTCCAGCCAGCCAACTCTGTTACGTTTGAACCCCT  
GTGTCAAACCACATGCAGCCCACCTTGTCACCAGCGCACCTCAGGAGTATCTCTACTTGACCAGTGCATAAGC  
CGAAGAGCAGAAAATGCAAGGAGTGCCAGCTTCTCTCAGGGCACCAGAGCCTCTTTTCTCATGAGGAGTGACACA  
GCTGTACAAAACTTGCCAGGGCAATGGACACTGTGTCAACGGGATCAGTGGTCAAGTCCATGGCTTCTATAGC  
CTTCCCAAGCCGAGCCGGCACAATACAGAATTGAGAGACAGTACCTACGACCTCCCCCGCAGCCTGGCTCCCAT  
GGCCACACCAAGGGCAGCCTCACAGGCTCCGAGACAGATAATGAGGATGTGTACACCTTCAAGACGCCCAGCAAC  
ACCTTGTGCAGGGAGTTCGGGGACCTCCTGGTAGACAATATGGATGTTCCGGCCACCCACTCTCAGCCTACCAG  
ATCCCTAGGACATTCACTCTGGACAAAAACCAATGCCATGACAGTGGCCACTCTTGGGGACTCAGCCATAGCT  
CCCCCACCCTGCCCCCAAGCCAAGTCAGGCAGAAACCTCGATGGGGCAGTCTCAGCAGAGACCGCCAATC  
AGTGAAAATAGCAGATCTGTGCTGCCACCATCCCCAGACGCAACACCCTCCCTGCAATGGACAACAGCCGACTT  
CACCGAGCTTCTTCTGTGAGACCTACGAGTACCCACAGCGTGGTGGAGAGAGTGCAGGCCGCTGTGCTGAATCC  
ATGAGTGATGGAGTTGGCTCTTCTGCCAGGGAAAATGATTGTGGGCCGATCGGACAGCACCATTCTGAAGAC  
AACTATGTGCCCATGAATCCAGGTTCTTCCACCCTGTTGGCCATGGAACGAGCAGGTGATAATCCCAGAGCGTC  
TACATCCCAATGAGCCAGGGGCCATCACTTTGACTCACTTGGCTACCCATCAACAACCCTTCTGTGCACCGA  
GGCCCCAGCAGAGGAAGTGAGATTGAGCCACCCCTGTCAACCGCAACCTCAAACCTGATCGGAAAGCAAAGCCA  
ACACCCTTGACCTGAGGAACAACACCGTCATCGATGAATCCCTTCAAGTCACCTATCACCAAGTCTTGGTCT  
AGGGCCAAACCACACCTTCAACTCCAGCTCCTCCAGTACTGCCGCCCCATCTCCACCCAGAGCATCACCAGCACA  
GACTCAGGAGACAGCGAAGAGAACTATGTCCCTATGCAAAACCCAGTGTCTGCATCTCCCGTTCCAGTGGCAGC  
AACAGTCTGCCCTAAGAAGAGCACCGGCAGCGTTGATTATCTGCCCCTGGACTTCCAGCCGAGCTCCCCAAGC  
CCCCACCGCAAGCCATCTACTTCATCCGTACCTCTGATGAGAAGGTGGACTACGTTGAGGTGGACAAGGAGAAG  
ACCCAGGCCCTGCAGAACCATGCAGGAGTGGACAGAGCTGCGGCAGTCTCAGAGCCTTCCAAGGGTGCCAAG  
CTGTGATGAGAGGGCCACCGCAGAGCCAGGAGGCAGCATCTCCAGAGCTGGCCCTTCCCATCTCCCTCTCCCC  
TCTCCCGTTCTTCTCCATCCACCTCCTCTACTCTGCCAGTCTCAGCCTTCAAAGCACTTGACATCAGGGAC  
CCTGAACCCTTCCCCTGGGAGGTGAGGGCCTGATCAAGGCACCTCCTCTGCCCACTCGGGGCCAGCTGTGATTT  
TTATCAGTAATGGCCATGCCTCCACCCACCTTAGTTAGGAGTACTTCCAAAAGCATCCTTCAGCCTCTTCTCTG  
TCCTTTAGACCTGACTCTTACCAGATGTTTGGAGGGAAGGGCTGGGGCTCTGAGCCAGATTCCACACCTCACGT  
TCAGTCACAGCCCTCAGCTATCTTCCCTCCGGCCACTGGGCTACCTCTCCTTCAGTCCAGAAAGACAAGTCTCAC  
CAACCCAGGGAGTCAAGGACCAGCAAACCAAGTGGATAATGGACTTTTTTCACTCTGTTTTTCTTGGCAGGAGA  
GAAGCAAGGCCACTAAAGAGGAGATGGTGGAGACGGAGGCTCAGCAGTGGTCTTGAGGGGTAAAGGACTTAGAT  
GCCCAGATGAAGAGGGAAAGCTGACATCTGCAGGGAACCCACTTTGAGGCTGAGGCCATGGCAGGACAGCTGCTG  
TGGGGTGCAGAGGCAGAAGATGAAGGACAAAAGGAAGGGAACCTGATGGCCAACCTAGAGCAGCAAGGAGCAGG  
GCTTGGAGCTCGGGTGGTGGAGATGACAAGGACACTGTGGGGTCTGGGTCCCAGAACTCTGGAGCTACAGGCCA  
CTCTAGGCCCAAGGGCTAGTCTCTTCCCCAGTCCCCTCAGAGGCCCCCGCCAGCCCCACCTTGAAAGCAGCATA  
CAGGGGAAGGCTTGGACCAAGCTGGGCGACCAAGCACATGGGGCAGGAACACATGGTAAAGGGGTGGGGAATATG  
GGAGGGAGTGTGGTGTGGATGGGGGTGATGCAGGACTGAGGGGAACCTGGGACAGGCACAGGCTGGGCAGAGG  
CACAGGGCAGTGCAGGGGACTCTGCAGTGGGGTCGGGAAGTGAGTTTCTTTGAGTGCAGTGCAGTGGAAAGTC  
GGGCACAGAGGTAGCAGACAGATGTGAAGCAGTGGTGAAGGCCATGTAGCAAGTGGGGAAATACATCCAAAGGGC  
CTGGGAGTTGGGGGGTGCCCAACGCAATCCTTGGGGGTGCAGGTTGGAGCAGAAAGTGAAGGAGGGACACGTGCA  
AGAGTGGTGTGCATGGTGGTGTGACATGAGGACCGTTCTAGGATGGGACAGTGGGTGAGGCAGGACAAGGAGAA  
AGCAGGGCAGAAATGATGCCTAGAGGACCACATCAGGCATGGCTGACAGCTTGTGCCCATGGGCTGTGGCGTATGT  
CAGATCGCAGGGTAGGAACGAGTCTGGCCTGGTGCCGGCCAGTGTTCCTCAGCTCATCCGCCCTCTGTGTCTC  
CCTAGCATTCAGGAGCCATCTTGGACTCTCCTCCCCAGGTTTGAAGGCCATCAGATTAGCAGGGACGGGGTGT

3627/6881  
**FIGURE 3342B**

AGGGCATCACCCAAGGTTCTTCTCTTAACTAAGGGTGGGGGATCTGAATGTTTTATGTTGACTGTTCTTGAC  
TAAATTTTCAAGAGTTTCAGAAGCAACAGGACAGACCAGACGTTTCATTCTACCCTGGGGCGAACAGAACTTCTT  
CCTCCCAAACATGACTTCTGCCATGTTTTGATGGGGACAGCTACCACTGTCTCTGCCCCATTCCCTTTTCAG  
CTCCCATGAGCATGCATAGTTCAACCAGACCAATGGCCTAGCCATTCTCTAAGTCCCATCCTGGAAGAAGTTATTT  
CTTCAAGAGCTGCACCTCTCTCTAGCATTAGTTTAGATCAACTCAAGGAGTATTTATTAATGGCTGCTGTCTC  
CAGTTTCTGGGGTTAAGCACTAAGGACACAAGAATCAATCAGACCTTCTCCCTGAACTTAAGATAGCCACAATCA  
GAAAAAGGACAAGGACATGAGACAGTGGTGATGGCCATCAGACAGAGACTTCAAATGCTGATGGAGGGCAGAGGA  
AGTACTTAGGGAGGTTGGTGTCAGAGGCAGGAGTGGGGGATCAGGGAAGGTGGATTCTAGGAAAAGGGAGTGCCT  
GAGGTAGGCCCTTAGAAGGGGATGAGTCAGATTTTTACAGAGGAGGAGGGCAGGGCTTGGGTCCAGTGGAGGAAGA  
AGGAAGGAGAGGCTTGGAAGCCCTTGTGTCTTGGGAAAAAAGGCCCTTGAGCATATGGGTCCAGCCACTCAGAA  
GTGCAGGGGCCATGCCTTGGTGTTCCAATAAGTGAATGGAAGCAGTGGTGGTAGCTACACTGGGCAGAGTTGGCA  
GGGTGCTGGTTCACTCTGCCCAGCCCTGAATGTGTGCCTTAAAGGCCCCCTACAAGGGGCCCCATACGACAGAGC  
TTTTAACTGGTGCTTCCCTGTACCCGACAGCCACAAGTGGGCCCAGACTATTGCAGCCTCCCATAAACATGT  
GAGCATGTTCTGAGTGTGCCATGATGTGAGTGGACCTGGCTGGAATCTTCGGAGAGCGACTGAGGTGTTCAAATC  
GAATCTCCCAGGAGGCTTCTTCCAGCCCCCTATTCTGGTAACTACCAGGAGGCTTCTTCCAGCCCCCTATTCT  
GGTAACTACCAAATCCCTCGGGTGCAAGTGTAGGGGTAGAGATGGAAGGATGAGAGGTGAATTTGACCTTTTGA  
AAGCAAAGCTCTGGCTACAGGCCCAAACTACCAGCCGTATCTAGCATATCCCCACCCTCCACCCACTACCTCC  
TCCAACAAAGGAGTCAACTCAGTTGAAAAAAGTGGTCTTTGGCCTATCCATGGGTCAAAGTCCACCTCTCCTGG  
GGGCTTGGAGAGGACTGAGCCTACGGAAAGGGGATACCTTCCCACTCAGCACTGCTTCACACAGGCCCCCTGCCT  
GGGGCTCTCCAAGGAGCCTTCTTACCCACTTCCAGCTCCACTTCTGCAAGGTTAAGTCAAGTGAGAACGATGAG  
AAATAGGGAGATGGTGTCTCTTAAGTCCTTGATCTGCCTGTCTGTGGAATGGGAGGTTGGATTAGCTGCGCTGA  
GGTCCCATCCACAGCTGGTGCTCAGCTGCTTGAAGGGGAGACTCCCTCCTCTGTAACCTCTTCTGGGGGATTGG  
GGTGGGCAGTACCTATCCCCAGTCCCCTCCTAGCTTGACTTTAGTGGTTTCCAATGTAGAAGTTAACAAAGTATG  
CCCCATTCTGTGACAAAAGCACAACCATTCTGAAGTTACTGGAGCATGGGCTCAGCTCATCTCCCTCTGGCCC  
CTTCTCCCATGGGGACATCTCGGCCAGCACCCCTATCCCATTTCCAGAGTTCTTCTTCCCCATCTGGGCCTTC  
ATAAAATGCAGGGGAAGCCAGACTGGTCTCAGGAGCGCTAAAGCCCTTCCGTGGGGGGTCTGCTTTCTGGGACTA  
GCCCTGCTGTTTAGGACCTGGGACCACAATGGGTACCTGCCGAGGGGGTCCCAAGAGATCCAGGCTGTATGT  
GATTTATGGTGGCATGTGTGTGATTTGTGGCTACTTGTGTCTTGAAATCTAGAATTATTTACGCAGAAATG  
TCACTGTTTGTGAGGAAGAGAAAATGGGCTAGTGGAAGCCAGTCTTGAGTCTTGTCTTGTGTTACCATTTAAAT  
TGACATTTAATTTTCAAATCACTGTTGGTGCCTAATCACTTAAGTTATTAATTTATTTCTGTTGTATTCTTTTTT  
TAAATTGTAACATATTTATCCGGTGGGTGGGACAGGAGTGTGTCAAGTGGGTGATGTTTTTGTGTGGTGACAC  
ATGGTACAGGCTTGAGCTTGAGGTCCCTTTCTACTGTGGTGTGGAGCAGGACAATAAAGTCCACTAGAAATG  
CACCCCA



3628/6881  
**FIGURE 3343**

MSGGGDVVCTGWLKSPPEKKLRRYAWKKRWFILRSGRMSGDPDVLEYYKNDHSHKPLRIINLNFCEQVDAGLTF  
NKKELQDSFVFDIKTSERTFYLVAEETEEDMNKWWQSICQICGFNQAEESTDSLNRNVSSAGHGPRSSPAELSSSSQ  
HLLRERKSSAPSHSSQPTLFTFEPVSNHMQPTLSTAPQEYLYLHQCISRAENARSASFQGTRASFLMRSDT  
AVQKLAQGNHCVNGISGQVHGFYSLPKPSRHNTFRDSTYDLPRSLASHGHTKGSLTGSETDNEDVYTFKTPSN  
TLCREFGDLLVDNMDVPATPLSAYQIPRTFTLDKNHNAMTVATPGDSAIAPPPRPPKPSQAETPRWGSPQQRPI  
SENSRSVAATIPRRNTLPAMDNSRLHRASSCETYEYPQRGGESAGRSAESMSDGVGSFLPGKMIVGRSDSTNSE  
NYVPMNPGSSTLLAMERAGDNSQSVYIPMSPGAHHFDSLGYPTTLPVHRGPPSRGSEIQPPPVNRNLKPDRAKAP  
TPLDLRNNTVIDELPFKSPITKSWSRANHTFNSSSSQYCRPISTQSIITSDSGDSEENYVPMQNPVSASPVPST  
NSPAPKKSTGSVDYLALDFQPSSPSPHRKPSTSSVTSDEKVDYVQVDKEKTQALQNTMQEWTDVRSSEPSKGAK  
L

3629/6881  
**FIGURE 3344A**

GAAATTTTGAGAAGTGGTGGGATGAAGAAGATCCCTGAAGAGAGGAGTAAGTGAAGACAAAGGCGAGGCTAGCAAT  
AGAGAGACAAGTGAGGGAATTAGACCTTTGGTATCATCATGAAAAGGCCTGGAAGAAACGCTGGTTTATCCTGCG  
GAGTGGCCGGATGAGCGGTGACCCAGATGTTCTGGAATACTACAAGAACGATCACTCCAAGAAGCCTCTGCGGAT  
CATCAACCTGAACCTTCTGTGAGCAGGTAGATGCAGGCCTGACCTTTAACAAGAAGGAGCTGCAGGATAGTTTTGT  
GTTTGACATCAAGACCAGTGAACGCACCTTTTACCTGGTGGCTGAGACAGAAGAGGACATGAATAAGTGGGTCCA  
GAGCATCTGCCAGATCTGTGGCTTCAATCAGGCTGAGGAGAGCACAGACTCCCTGAGAAATGTTTCTCAGCCGG  
TCATGGCCCCCGCTCTTCTCCAGCTGAGCTCAGCAGCTCTAGCCAGCACCTTCTCCGAGAGCGCAAGTCTCAGC  
CCCATCACACTCCAGCCAGCCAACCTCTGTTACGTTTGAACCCCTGTGTCAAACCACATGCAGCCCACCTTGTC  
CACCAGCGCACCTCAGGAGTATCTCTACTTGCACCACTGCATAAGCCGAAGAGCAGAAAATGCAAGGAGTGCCAG  
CTTCTCTCAGGCGACCCAGAGCCTCTTTTCTCATGAGGAGTGACACAGCTGTACAAAACTTGCCAGGGCAATGG  
ACACTGTGTCAACGGGATCAGTGGTCAAGTCCATGGCTTCTATAGCCTTCCCAAGCCGAGCCGGCACAATACAGA  
ATTCAGAGACAGTACCTACGACCTCCCCCGCAGCCTGGCCTCCCATGGCCACACCAAGGGCAGCCTCAGGCTC  
CGAGACAGATAATGAGGATGTGTACACCTTCAAGACGCCCAGCAACACCTGTGCAGGGAGTTCGGGGACCTCCT  
GGTAGACAATATGGATGTTCCGGCCACCCCACTCTCAGCCTACCAGATCCCTAGGACATTCACTCTGGACAAAA  
CCACAATGCCATGACAGTGGCCACTCCTGGGGACTCAGCCATAGCTCCCCACCCCGCCCCCAAGCCAAGTCA  
GGCAGAAACACCTCGATGGGGCAGTCTCAGCAGAGACCGCCAATCAGTGAAAATAGCAGATCTGTGCTGCCAC  
CATCCCCAGACGCAACACCTCCCTGCAATGGACAACAGCCGACTTCACCGAGCTTCTTCTGTGAGACCTACGA  
GTACCCACAGCGTGGTGGAGAGAGTGCAGGCGGTCTGCTGAATCCATGAGTGATGGAGTTGGCTCTTTCTGCC  
AGGGAAAATGATTGTGGGCCGATCGGACAGCACCAATTCTGAAGACAATATGTGCCCATGAATCCAGGTTCTTC  
CACCCTGTTGGCCATGGAACGAGCAGGTGATAATTCCCAGAGCGTCTACATCCCAATGAGCCAGGGGCCATCA  
CTTTGACTCACTTGGCTACCCATCAACAACCTTCTGTGCACCGAGGCCCCAGCAGAGGAAGTGAGATTACGCC  
ACCCCTGTCAACCGCAACCTCAAACCTGATCGGAAAGCAAAGCCAACACCACTTGACCTGAGGAACAACACCGT  
CATCGATGAACCTCCCTTCAAGTCACCTATCACCAGTCTTGGTCTAGGGCCAACCACACCTTCAACTCCAGCTC  
CTCCAGTACTGCCGCCCATCTCCACCCAGAGCATCACCAGCACAGACTCAGGAGACAGCGAAGAGAATATGT  
CCCTATGCAAAACCCAGTGTCTGCATCTCCCGTTCCTCAGTGGCACGAACAGTCTGCCCCCTAAGAAGAGCACCGG  
CAGCGTTGATTATCTGGCCCTGGACTTCCAGCCGAGCTCCCCAAGCCCCACCGCAAGCCATCTACTTCATCCGT  
CACCTCTGATGAGAAGGTGGACTACGTTCAAGTGGACAAGGAGAAGACCCAGGCCCTGCAGAACACCATGCAGGA  
GTGGACAGACGTGCGGCAGTCTCAGAGCCTTCCAAGGGTGCCAAGCTGTGATGAGAGGGCCACCGCAGAGCCCA  
GGAGGCAGCATCTCCAGAGCTGGCCCTTCCCATCTCCCTCTCCCTCTCCCTTCTTCTCCATCCACCTCCT  
CTCTACTCTGCCAGTCTCAGCCTTCAAAGCACTTGACATCAGGGACCCCTGAACCTTCCCTTGGGAGGTGAGGGC  
CTGATCAAGGCACCTCCTCTGCCCCTCGGGGCCAGCTGTGATTTTTATCAGTAATGGCCATGCCTCCACCCAC  
CTTAGTTAGGAGCTACTTCAAAAAGCATCTTACGCTCTTCTGTCTTTAGACCTGACTCTCTACCAGATGT  
TTGGAGGGAAGGGCTGGGGCTCTGAGCCAGATTCCACACCTCACGTTCAATCAGCCCTCAGCTATCTTCCCTC  
CGGCCACTGGGCTACCTCTCTTCACTCCAGAGACAAGTCTCACCACCCAGGGAGTCAAGGACCAGCAAACC  
AAAGTGGATAATGGACTTTTTTCACTTCTGTTTTTCTTGGCAGGAGAGAAGCAAGGCCACTAAAAGAGGAGATGGT  
GGAGACGGAGGCTCAGCAGTGGTCTTGAGGGGTAAAGGACTTAGATGCCAGATGAAGAGGGAAGCTGACATCT  
GCAGGGAACCCACTTTGAGGCTGAGGCCATGGCAGGACAGCTGCTGTGGGGTGCAGAGGCAGAAGATGAAGGACA  
AAAGGAAGGGAAGAACTGATGGCCAACCTAGAGCAGCAAGGAGCAGGGCTTGAGGCTCGGGTGGTGGAGATGACAA  
GGACACTGTGGGGTCTGGGTCCCCAGAACTCTGGAGCTACAGGCCACTCTAGGCCCAAGGGCTAGTCTCTTCCC  
CAGTCCCCCTCAGAGGCCCCCGCCAGCCCCACCTTGAAAGCAGCATACAGGGGAAGGCTTGACCAAGCTGGGCGA  
CCAAGCACATGGGGCAGGAACACATGGTAAAGGGGTGGGGAATATGGGAGGGAGTGTGGTGTGGATGGGGGTGAT  
GCAGGGACTGAGGGGAACCTGGGACAGGCACAGGCTGGGCAGAGGCACAGGGCAGTGCAGGGGACTCTGCAGTG  
GGGTGCGGAAGTGAGTTTTCTTTCAGTGAGCAGTGAGTGGAAGTCGGGCACAGAGGTAGCAGACAGATGTGAAG  
CAGTGGTGAAGGCCATGTAGCAAGTGGGGAATATACATCAAAGGGCCTGGGAGTTGGGGGTGCCAACGCAATC  
CTTGGGGGTGCAGGGTGGAGCAGAAAGTGAAGGAGGGACACGTGCAAGAGTGGTGTGCATGGTGGTGTGACATGA  
GGACCGTTTCTAGGATGGGACAGTGGGTGAGGCAGGACAAGGAGAAAGCAGGGCAGAAATGATGCCTAGAGGACCA  
CATCAGGCATGGCTGACAGCTTGTCCCATGGGTGTGGCGTATGTGAGATCGCAGGGTAGGAACGAGTCTGGCC  
TGGTGCCGGCCAGTGTTCCTCAGCTCATCCGCCCTCTGTTGCTCCCTAGCATTCAGGAGCCATCTTGGACTC

3630/6881  
**FIGURE 3344B**

TCCTCCCCAGGTTTGAAAGGCCATCAGATTAGCAGGGACGGGGTGTAGGGCATCACCCAAGGTTCTTCTCTTAA  
ACTAAGGGTGGGGGATCTGAATGTTTTATGTTGACTGTTCTTGACTAAATTTTCAAGAGTTTCAGAAGCAACAG  
GACAGACCAGACGTTTCATTCTACCCCTGGGGCGAACAGAACTTCTTCTCCCAAACAATGACTTCCTGCCATGTT  
TGATGGGGACAGCTACCCTGTCTCTGCCCCATTCCCCTTTTCAGCTCCCATGAGCATGCATAGTTCACCAGAC  
CAATGGCCTAGCCATTCTCTAAGTCCCATCCTGGAAGAAGTTATTTCTTCAAGAGCTGCACCTCTCTCTCTAGCA  
TTAGTTTAGATCAACTCAAGGAGTATTTATTAATGGCTGCTGTCTCCAGTTTCTGGGGTTAAGCACTAAGGACAC  
AAGAATCAATCAGACCTTCTCCCTGAACCTAAGATAGCCACAATCAGAAAAAGGACAAGGACATGAGACAGTGGT  
GATGGCCATCAGACAGAGACTTCAAATGCTGATGGAGGGCAGAGGAAGTACTTAGGGAGGTTGGTGTGAGAGGCA  
GGAGTGGGGGATCAGGGAAGGTGGATTCTAGGAAAAGGGAGTGCCTGAGGTAGGCCTTAGAAGGGGATGAGTCAG  
ATTTTACAGAGGAGGAGGGCAGGGCTTGGGTCCAGTGGAGGAAGAAGGAAGGAGAGGCTTGGAAAGCCTTGTGT  
CTTGGGAAAAAAGGCCCTTTGAGCATATGGGTCCAGCCACTCAGAAGTGCAGGGGCCATGCCTTGGTGTTCGAAT  
AAGTGAATGGAAGCAGTGGTGGTAGCTACACTGGGCAGAGTTGGCAGGGTGTGTTCACTCTGCCCAGCCCTGA  
ATGTGTGCCTTAAAGGCCCCCTACAAGGGGCCCATACGACAGAGCTTTAACTGGTGCCTTCCCTGTACCCGCA  
GCAGCCACAAGTGGGCCAGACTATTGCAGCCTCCCAATAACATGTGAGCATGTTCTGAGTGTGCCATGATGTGA  
GTGGACCTGGCTGGAACTCTCGGAGAGCGACTGAGGTGTCAAATCGAATCTCCAGGAGGCTTCCCTCCAGCCC  
CCTATTCTGGTAACTACCAGGAGGCTTCCCTCCAGCCCCCTATTCTGGTAACTACCAAAATCCCTCGGGTGCAAG  
TGTAGGGGTAGAGATGGAAGGATGAGAGGTGAAATTGACCTTTTGAAAGCAAAGCTCTGGCTCACAGGCCCCAAA  
CTACCAGCCGTATCTAGCATATCCCCACCTCCACCCACTACCTCCTCCAACAAGGAGTCAACTCAGTTGAAAA  
AACTGGTCTTTTGGCCTATCCATGGGTCAAAGTCCACCTCTCCTGGGGGCCTGGAGAGGACTGAGCCTACGGAAA  
GGGGATACCTTCCCACTCAGCACTGCTTACACAGGCCCCCTGCCTGGGGCTCTCCAAGGAGCCTTCTTACCCCA  
CTTCCAGCTCCACTTCTGCAAGGTTAAGTCAAGTGAGAACGATGAGAAATAGGGAGATGGTGTCTCCTTAAGTCC  
TTGATCTGCCTGTCTGTGGAATGGGAGGTTGGATTAGCTGCGCTGAGGTCCCATCCACAGCTGGTGTCTCAGCTGC  
TTGAAGGGGAGACTCCCTCCTCTGTAACTTCTTTCTGGGGATTGGGGTGGGCAGTACCTATCCCCAGTCCCCTC  
CTAGCTTGACTTTAGTGGTTTCCAATGTAGAAGTTAACAAGTATGCCCCATTCTGTGACAAAAGCACAACCAT  
TCTGAAGTTACTGGAGCATGGGCTCAGCTCATCTCCCTCTGGCCCCCTTCTCCCATGGGGACATCTCGGCCCAGC  
ACCCCTATCCCATTTCCAGAGTTCTTCCCTTCCCCATCTGGGCCCTTCATAAAATGCAGGGGAAGCCAGACTGGTCT  
CAGGAGCGCTAAAGCCCTTCCGTGGGGGGTCTCTTTCTGGGACTAGCCCTGCTGTTTAGGACCTGGGACCACAA  
TGGGGTACCTGCCGAGGGGGTCCCCAAGAGATCCAGGCTGTCATGTGATTTATGGTGGCATGTGTTGTGATTTG  
TTGGCTACTTGTGTCTTGAATCTAGAATTATTTACGCAGAAATTGTCACTGTTTGTGAGGAAGAGAAAATGGGC  
TAGTGGAAAGCCAGTCTTGAGTCTTGTCTTGTACCATTTAAATTTGACATTTAATTTTCAAATCACTGTTGGT  
GCCTAATCACTTAAGTTATTAATTTATTTCTGTGTATTCTTTTTTTAAATTGTAACATATTTATCCGGTGGGTG  
GGACAGGAGTGTGTTCAAGTGGGTGATGTTTTGCTGTGGTGACACATGGTACAGGCTTGGAGCTTGAGGTCCC  
TTTCTACTGTGGTGTGGAGCAGGACAATAAAGTCCACTAGAAATGCACCCCA

3631/6881  
**FIGURE 3345**

MSGDPDVLEYYKNDHKKPLRIINLNFCEQVDAGLTFNKKELQDSFVFDIKTSERTFYLVAEETEDMNKWWQSIC  
QICGFNQAEESTDSLNRNVSSAGHGPRSSPAELSSSSQHLLRERKSSAPSHSSQPTLFTFEPPVSNHMQPTLSTSA  
PQEYLYLHQCISRAENARSASFSGQTRASFLMRSDTAVQKLAQGNGHCVNGISGQVHGFYSLPKPSRHNTFRD  
STYDLPRSLASHGHTKGSLTGSETDNEDVYTFKTPSNTLCREFGDLVDNMDVPATPLSAYQIPRTFTLDKNHNA  
MTVATPGDSAIAPPPRPPKPSQAETPRWGSPPQQRPPISENSRVAATIPRRNTLPAMDNSRLHRASSCETYEPQ  
RGGESAGRSAESMSDGVGSFLPGKMIVGRSDSTNSEDNYVPMNPGSSTLLAMERAGDNSQSVYIPMSPGAHHFDS  
LGYPSTTLVHRGPSRGSEIQPPVNRNLKPDRKAKPTPLDLRNNNTVIDELPFKSPITKSWSRANHTFNSSSSQY  
CRPISTQSITSTDSDSEENYVPMQNPVSASPVPSGTNSPAPKKSTGSVDYLALDFQPSSPSHRKPSTSSVTSD  
EKVDYVQVDKEKTQALQNTMQEWDVRSSEPSKGAKL

3632/6881  
**FIGURE 3346**

TTTAACCATTTCTAACTTTGCCTTGGGATATTGAAAATTCTGAATCAGTGAGGTATCTAAATAATTTATATTTTCA  
AAAAATAATGTTTATTTTATAATTCTGAGTGTAAAACACTATCAGAAAAGTAATCCTCATGCTCACTAAACAAAC  
CTACTCTAAGACACTCAACAACCAGAACAGTTTTATTATTGAGTTGTGTACAAAAATCTTGACTGTCCAGATGAA  
ATAGTTTTTTCAGCCTGCAGTGTGTAGTGATATATCTCAAGGAGATGAACCAATAAAGTACAGACTTTGTGGTCT  
GAAGCTCTGTTGTGAAAAATAAGCTAAACCAATTCACACTGACAGTATAATTTGATTCAAGTGCAGTCCAGTT  
CAATAAAAACTAATGTTTTTAAAATTAACTTTGTGTTTGTATTTGGTTCAACTCCTTGCTAGTTCTCTCTCTATAT  
AATTTATAAAAACTGCATGTTGCTAATCTCATGATCCTGTGCATGTGGACTACTCTGCCTTTAACTTTTTTACAA  
AAACATGTTTGTTCATAGATTAATAAAAAGTATGTTTTCAACTTAATGTCTAATGTTTCTGACAATTGTAAGAA  
TAATTTTGAAATGGAAATGCTGCTGTTTAGTTTCCACAGTGCCTACACAACCTGATAATCCATTTTCTCACCTG  
ACAAACTCAAAAGCATGAGCAAGTCTGTTCCAGCATTTCTCCAAGATGAGAGTGATGACAGAGAAACAGATACAG  
CATCAGAAAGCAGTTACCAGCTCAGCAGACACAAGAAGAGCCCGAGCTCTTTAACCAATCTTAGCAGCTCCTCTG  
GCATGACGTCCTTGTCTTCTGTGAGTGGCAGTGTGATGAGTGTGTTATAGTGGAGACTTTGGCAATCTGGAAGTTA  
AAGGAAATATTCAGTTTGAATTGAATATGTGGAGTCACTGAAGGAGTTGCATGTTTTGTGGCCAGTGTAAAGG  
ACTTAGCAGCAGCGGATGTAAAAAACAGCGTTTACAGCCCATATGTAAAGGCCTATTTGCTACCAGACAAAGGCA  
AAATGGGCAAGAAGAAAACACTCGTAGTGAAGAAAACCTGAATCCTGTGTATAACGAAATACTGCGGTATAAAA  
TTGAAAAACAAATCTTAAAGACACAGAAATTGAACCTGTCCATTTGGCATCGGGATACATTTAAGCGCAATAGTT  
TCCTAGGGGAGGTGGAACCTGATTTGGAACATGGGACTGGGATAACAAACAGAATAAACAATTGAGATGGTACC  
CTCTGAAGCGGAAGACAGCACCAGTTGCCCTTGAAGCAGAAAACAGAGGTGAAATGAACTAGCTCTCCAGTATG  
TCCCAGAGCCAGTCCCTGGTAAAAAGCTTCTTACAACCTGGAGAAGTGCACATCTGGGTGAAGGAATGCCTTGATC  
TACCACTGCTAAGGGGAAGTCATCTAAATCTTTTGTAAATGTACCATCCTTCCAGATACAAGTAGGAAAAGTC  
GCCAGAAGACAAGAGCTGTAGGGAAAACCAACCTATCTTCAACCACACTATGGTGTATGATGGGTTTCAGGC  
CTGAAGATCTGATGGAAGCCTGTGTAGAGCTTACTGTCTGGGACCATTACAAATTAACCAACCAATTTTTGGGAG  
GTCTTCGTATTGGCTTTGGAACAGGTAAAAGTTATGGGACTGAAGTGGACTGGATGGACTCTACTTCAGAGGAAG  
TTGCTCTCTGGGAGAAGATGGTAAACTCCCCCAATACTTGGATTGAAGCAACACTGCCTCTCAGAATGCTTTTGA  
TTGCCAAGATTTCCAAATGAGCCCAAATTCCTACTGGCTCCTCCACTGAAAACCTACTAAACCGGTGGAATCTGATC  
TTGAAAATCTGAGTAGGTGGACAAATATCCTCACTTTCTATCTATTGCACCTAAGGAATACTACACAGCATGTAA  
AAGTCAATCTGCATGTGCTTCTTTGATTACAAGGCCCAAGGGATTAAATATAACAAAATGTGTAATTTGTGACT  
CTAATATTAAATAAGATATTTGAACAAGCTAGGAAAATTGAATTTCTGCTGCTGCTTCAAAGAAAAAGCTGCCCC  
AGAGCATTAAACATGGGGTATTGTTAAGAAGCAAAATGTTCTTGTGTTGGCATCATGTGTTTACACCACAATTCT  
GTGCCACAGTTAAGAGGGTCTGGTACCCTTGCAGGACCTTTGTAGGTTGTGGGAAAAAGTCGCAGAAAGATACTC  
AAAGTGGAGCAGGGAATGGAGACAGACATCAGTGATGATAAAAAAAGGACCTTAAGAACTATTTACTCT  
GTAATCTCTAATAAAATATGGAATTCATATTAGGGCAATGAGACTGAACTACTGGTGTGTTTTCTGCCTTGAGA  
AAACAAACAGTTAAACAAAGCCTCAAATGTATTTTAGTGCCACCCACTGGCCATAGGTACAATTCAGTTGTTGGC  
TTGTTTTGACTTAATTTCTAAATAGGTCTCAAGCCTGTATTTTATGAGTTTATTTTTTAAACCCTGCATATA  
TATGATTGTTTTTCTTATACTTTACTATATGAAAGCAGCATAAGAGTAGTCACAAACATGTTTTGCAACAAAGT  
TTTAATTAGAATGTAAGTTGCTCAGTTATACTGTTCTTCTTATGTATGTAAATTTTCGTATTTTGTAACCAACC  
TTAGAATAAATTATCATTTGATTTAAATTGT

3633/6881  
**FIGURE 3347**

MSKSVPAFLQDESDDRETDASESSYQLSRHKKSPSSLTNLSSSSGMTSLSSVSGSVMSVYSGDFGNLEVKGNIQ  
FAIEYVESLKELVFVAQCKDLAAADVKKQRSDPYVKAYLLPDKGKMGGKTLVVKKTLNPVYNEILRYKIEKQI  
LKTQKLNL SIWHRDTFKRNSFLGEVELDLETWDWDNKQNKQLRWYPLKRKTAPVALEAENRGEMKLALQYVPEPV  
PGKKLP TTGEVHIWVKECLDLPLLRGSHLNSFVKCTILPDTSRKSQKTRAVGKTTNP IFNHTMVYDGF RPEDLM  
EACVELTVWDHYKL TNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEK MVNSPNTWIEATLPLRM LLI AKIS  
K

3634/6881  
**FIGURE 3348**

GGCAGGCATGGGAGCCGCGCGCTCTCTCCCGGCCGCCACACCTGTCTGAGCGGCGCAGCGAGCCGCGGCCCGGGC  
GGGCTGCTCGGCGCGGAACAGTGTCTGGCATGGCAGGGATTCCAGGGCTCCTCTTCCTTCTCTTCTTCTGCTCT  
GTGCTGTTGGGCAAGTGAGCCCTTACAGTGCCCCCTGGAAACCCACTTGGCCTGCATACCGCTCCCTGTCTGCT  
TGCCCCAGTCTACCCCTCAATTTAGCCAAGCCAGACTTTGGAGCCGAAGCCAAATTAGAAGTATCTTCTTCATGTG  
GACCCCACTGTCTATAAGGGAACCTCCACTGCCCCTTACGAAGAGGCCAAGCAATATCTGTCTTATGAAACGCTCT  
ATGCCAATGGCAGCCGCACAGAGACGCAGGTGGGCATCTACATCCTCAGCAGTAGTGGAGATGGGGCCCAACACC  
GAGACTCAGGGTCTTCAGGAAAGTCTCGAAGGAAGCGGCAGATTTATGGCTATGACAGCAGGTTTCAGCATTTTGG  
GGAAGGACTTCCTGCTCAACTACCCCTTTCTCAACATCAGTGAAGTTATCCACGGGCTGCACCGGCACCCCTGGTGG  
CAGAGAAGCAITGCTCTACAGCTGCCCACTGCATACAGATGGAAAAACCTATGTGAAAGGAACCCAGAAGCTTC  
GAGTGGGCTTCCTAAAGCCCAAGTTTAAAGATGGTGGTCGAGGGGCCAACGACTCCACTTCAGCCATGCCCGAGC  
AGATGAAATTTTCAGTGGATCCGGGTGAAACGCACCCATGTGCCCAAGGGTTGGATCAAGGGCAATGCCAATGACA  
TCGGCATGGATTATGATTATGCCCTCCTGGAACCTCAAAAAGCCCCACAAGAGAAAATTTATGAAGATTGGGGTGA  
GCCCTCCTGCTAAGCAGCTGCCAGGGGGCAGAATTCACCTTCTCTGGTTATGACAATGACCGACCAGGCAATTTGG  
TGTATCGCTTCTGTGACGTCAAAGACGAGACCTATGACTTGCTCTACCAGCAATGCCATGCCAGCCAGGGGCCA  
GCGGGTCTGGGGTCTATGTGAGGATGTGGAAGAGACAGCAGCAGAAGTGGGAGCGAAAAATTTATTGGCATTTTTT  
CAGGGCACCAGTGGGTGGACATGAATGGTTCCCCACAGGATTTCAACGTGGCTGTCAGAATCACTCCTCTCAAAT  
ATGCCCAGATTTGCTATTGGATTAAAGGAACTACCTGGATTGTAGGGAGGGGTGACACAGTGTTCCCTCCTGGC  
AGCAATTAAGGGTCTTCATGTTCTTATTTTAGGAGAGGCCAAATTGTTTTTGTATTGGCGTGCACACGTGTGT  
GT  
CTATTTGAAAACCTGGTTTGTGTATCATATCATATATCATTTAAGCAGTTTGAAGGCATACTTTTGCATAGAAATA  
AAAAAATACTGATTTGGGGCAATGAGGAATATTTGACAATTAAGTTAATCTTCACGTTTTTGCAAACCTTGATT  
TTTATTTTCATCTGAACCTGTTTCAAAGATTATATTAATATTTGGCATAACAAGAGATATGA

3635/6881  
**FIGURE 3349**

TGCTGGCCGGCGAGAGGCTGGCGGCTGGGCTCTCGCGCCCTCCCTGCAGGGCTCAGGCTCTCCCCCTCCTGTC  
TTCTCCGCGCTGTTCTCGTCATGGCGGCCCTCAGCAAGTCCATCCCTCATAACTGCTATGAGATCGGCCACACT  
TGGCACCCCTTCTGCGGGTCTCCTTCTGTCAGATCACCGGGGGCGCCCTGGAGGAGTCCCTGAAGATCTATGCT  
CCTCTGTACTTGATTGCAGCAATTCTCCGGAACGGAAATTAGACTATTATTTACACAACTACTCCCTGAGATC  
CTACAATCCGCTTCATTTCTAACTGCTAATGGGGCTTGTATATGGCTTTCTTTTGCAATTTAAGGAAGATACTT  
GGAAAATTCTACTCATGGACTCCTGGCTTTGGTGCCGCTCTGCCAGCATCTTATGTGGCCATTCTCATTGAAAGA  
AAAAGCAGGAGAGGGCTGCTCACAATTTATATGGCCAACTTGGCCACAGAAACACTATTGAGAATGGGTGTAGCA  
AGAGGAACCATCACACAATTAAGAAATGGAGAAGTCCTTTTGTGTTTGTCATCACAGCTGCCATGTACATGTTCTTT  
TTCAGGTGCAAGGATGGCTTGAAAGGATTTACATTTTCTGCACTTAGGTTTATTGTAGGGAAGGAAGAAATCCC  
ACACATTTCTTTTACCAGAGGCAGCATATGCAAAAGTGAACAAAAGAGAGCAACATGAGGAAAAACCCGGA  
AGAATGAATATGATTGGTCTAGTCAGGAAATTTGTGGATTCAATATGCAACATGGACCAAGGCATAGATGTTGC  
AAACATTATGAAGATAATTGCATCTCTTATTGCATTAAAGGTTTTCATCAGAATGTTTAGCGTGGGGTACTTGATC  
CAGTGTGCTCCGAAATCCCTTCTGCATTTAGGCATCTGTTTACACAGCCATCTCGGCTACTTTCTCTCTTCTAC  
AATAAAGAAAACCTTCCAGCTTGGAGCTTTTCTTGGCTCTTTGTAGTATATACAAGGGTACTAGTTGCTTCCCTG  
CGCTGGATCAGAACTTAGATGATGAACACATGCTATTATAGCTGGATTTTGGCAGGTATATCAATGATGTTT  
TATAAAGCACAACAATTTCCATGATTTAGCGTCCAAATTTGGTAGAGACAATGTATTTCAAAGGCATTGAAGCA  
GGGAAGGTTCCCTATTTTCTCATGCAGATACTATCATCTATTCCATCTCTACAGCAATTTGCTTCCAGGCAGCT  
GTCATGGAAGTTGAGACTTTGAGACCATCTTACTGGAAGTTCCTTTTAAGACTCACCAAGGGCAAATTTGCTGTC  
ATGAACCGAAAAAGTCCTTGATGTTTTTGGTACTGGTGCATCTAAACACTTTCAGGATTTTATCCCCAGGTTGGAT  
CCAAGATACACAACCTGTAACACCAGAGTTGCCACAGAGTTTCTGAGATGACTGTAACCTTATTAATGTGACT  
AAATGTTTCTCTTGAAGAGTTAATTATGTTGAACACAAAGGAGGGGGCCCAAGCTCGAACCTCAGTGTTATTTT  
AGTTAGAGATACTCTTTTCAATTTGTTTTGTTTTCTTAAGAATCAGAAATTCAGAAGCTTTTLAGGAAGATGTTG  
CTTAATAATTAAGCTTCCCTCATAGCCAGAATAAGATTCTGGATCACTGTAGTACTGACATTATATATTATTGA  
TCAAATTATGTCCACAAGCAATATTATATAATCTACGTAGAAGTGAATAACAAACAAGAGTACACTTAAATTA  
CTTTAAAGATGTCTTTAGTTCAATTAATTAATCTTGATTAAATTAGGATTATTTCTACATTTTAGGATTT  
ACAAAGGATCACGGGTACATGGATTTGGTCTATATATTTTTTAAAGTTTTGAATTGGTATCTGTAGTAGTGGA  
TGTTATAGATTTGAAGTAACCTCTCCACGGACAGTGTGCTTTCTGCTAGAGCAATTTAATTGGAGAAGTGGCCAT  
TCTTACTTCAGGGATGCAAAGATGGGTCTCATACCATTGGATAAATGTCGTGGTATCCATGCTTTTTTCAACT  
AATAACATCATCTCTCTTCATGACCAGTTAATTGGGCTATTTGGCAGCCAGTGAACCTATGTACTAATGGCAAG  
TTAGGGGCAAATGGAATGGACACATCCGATAAAGTTGAAATGTATGTTTTAATCTTTCACAGAAGTATTACACT  
TGAATATTTAAAAACAAAACCTTTAAACTTCCTATAGGTTTATGATGTTTGTTCATTTATATGGACATAATCC  
TTCATAGCTCAGTTTATATGCCATTGTTGTATTAGAAGGGATCAAAATCCTATGGAACAAAGTAGCTTTGGCAAG  
TTGGCAGTTTGTGCTCTCAGCTGTTAACTTATGTAATGGATGTTTGCACCTGAAAACACTATAAAAAATCCA  
GTGGTTGTTTAAAAAGTCCATTTGTCATAATTCCATTGAGTTCTCCAACCTTCTCTTGAATATCATTTGTAC  
CATTTTTACTGTTAGAATAAAGAGGTGACACCATAAAGTCTGCTGATAATGAGAGTAGTTTCAAGACAGCTGTGA  
TTGAAATATGGTCGCTATTTACAGTTTTTCAGGGAAAAGTTATACTTTCTATGTTAATAAAGAGCTGAAGTGGT  
CTACAGTTAATGTGACATGTAGGGATGATGATATTTTTAAATACATTTGTTGCTAAAAAGTTTTTAGGCCAGT  
GCAAAATATGCAGTAGAAGTTGTGTGCAAAAGGAATTATAACCCATACTTTAAAAATGCTTAATCCCTCATATT  
CAATTTTATCAAGCCTTGATACTTCTGCTTAAATGTAATTCAATCCTTGGTTGTTATGGCAAACAGAAACCCAA  
CAAAAAGACAGACTCTGGTACTATGGTAACAGAGCCACTTTATCATTGGTCAAAATTTGGCATTATGATTAGCT  
TTGTAGAAGTACCTGTTTATTTGGCAATGCTGTTAAAGGATCATTTCGGTTTCAGACTTCAAAGTTGATTAATA  
AATTTAATCTTAACCTTTTATTCACTGGAATCAAAACGATGGTTGGTACTGTGTTTACTGTTTAAATGAAGTAC  
TAAAGCCCTGAGAAGTGCACCTCATTTCTTTATCCAGAAATTTGTGCTTATATATTTTCTGTCAGGTTTAAAAA  
GATGTTTTAATTCATAAATTATTGTTTTTATTGACATTAAAGACTGTGATATTG



3636/6881  
**FIGURE 3350**

TTAGCTTGTTGGGGACGGTAACCGGGACCCAGTGTCTGCTCCTGTCACCTTCGCCTCCTAATCCCTAGCCACTAT  
GCGTGAATGCGTCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGTCTGCTGGGAGCTCTACTGCCT  
GGAACATGGCATCCAGCCCAGTGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTCCTTCAACAC  
CTTCAGTGAGACGGGTGCTGGCAAGCATGTGCCCCGGGCTGTGTTGTAGACTTGGAAACCATGGTCATTGATGA  
AGTTTGCACTGGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAGGAAGATGCTGCCAATAA  
CTATGCCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGAATTGCAAGCTGGCTAA  
CCAGTGCACTGGTTTTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGTTCTGGGTTACCTCCCT  
GCTCATAGAACGTCICTTAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCAATTACCCAGCGCCCCAGGT  
TTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCTGGAGCACTCTGATTGTGCCTT  
CATGGTAGACAATGAGGCCATCTGTGACATCTGTTGTAGAAACCTCAATATCGAGCGCCGTGCATGCTGAGCAAC  
ACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAG

3637/6881  
**FIGURE 3351**

MRECVSIHVGQAGVQIGNVCWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFSETGAGKHVPRAVFVDLEPMVID  
EVCTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLANQCTGFQGFVHFSFGGGTSGGFTS  
LLIERLLVDYGKKSKLEFSNYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMVDNEAICDICCRLNIERPTYTN  
LNHLISQIVSSITASLRFDGALNVDLTEFQTNLVPYSHIHPLATYAPVISA EKAYHEQLSVAEITNASFEPANQ  
MVKCDPRHGKYMCCLLCHGDVVPKDANAAIATIKTKRSIQFVDWCPTGFKVGINYQSPTVVPGGDLAMVQSAC

3638/6881  
**FIGURE 3352**

GGGACGGTAACCGGGACCCAGTGTCTGCTCCTGTACCTTCGCCCTCCTAATCCCTAGCCACTATGCGTGAATGCG  
TCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGTCTGCTGGGAGCTCTACTGCCTGGAACATGGCA  
TCCAGCCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTGTGTTTGTAGACTTGAACCC  
ATGGTCATTGATGAAGTTTGCCTGACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAGGAA  
GATGCTGCCAATAACTATGCCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGAATT  
CGCAAGCTGGCTAACCAGTGCACTGGTTTTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGTTCT  
GGGTTACCTCCCTGCTCATAGAACGTCTCTTAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCAATTAC  
CCAGCGCCCCAGGTTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCCTGGAGCAC  
TCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTGTGACATCTGTTGTAGAAACCTCAATATCGAGCGCCCA  
ACCTACACTAACCTTAACCACCTTATTAGCCAGATTGTGTCTCTATCACTGCTTCCCTGTCATTTCTGCTGAGA  
AAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTCCTTTGAGCCAGCCAACCAGATGGTGAAAT  
GTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCATTGTGCCATGGTGATGTGGTTCCCAAAGATGCCAATG  
CTGCCATTGCCACCATCAAGACCAAGCGTAGCATCCAGTTGTAGATTGGTGCCCCACTGGCTTCAAGGTTGGCA  
TCAACTACCAGTCTCCCACTGTGGTGCTGGTGGAGACCTGGCCAAGGCGAGTTTTTCAGAGCCCCGTGAAGACAT  
GGCTGCCCTTGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAAGAGAGGA  
ATACTAATCCATTCTTTTGGCCCTGCAGCATGTCGTGCTCCAGAAATTCAGCTTCAGCTTAGCTGACAGACAT  
TAAAGCTTTCTGGTTAGATTTTCATTGGTGATCATGTCTTTTCCATGTGTACCTGTAATGTTTTTCCATCATGT  
CTCAAAGTACAGT

3639/6881  
**FIGURE 3353**

CACTGTTGCCTATCAGAAGTCAATTCAAACGACCTGCCCCAGAGAGACAAAAGATACAGATATTGTGGATGAAG  
CATCTATTACTTCAAGGCCAATATCTTCTTCAAAAACTATGAAATTAAGAATGAAGCTGATAGGACCTTGATAAT  
ATATAATGATATATATAACTCTCTACATTTCTGAATGTCTGAAGAACTCCAAAAGTGCAATTCCCCTGGAAAGC  
CTGGTTTTCTACTTAACGCAATTTATGCCAAACCTGCAAACAAACAGGAAGATGAAGTGATGAGAGCCTATTTAC  
AACAGCTAAGGCAAGAGACTGGACTGAGACTTTGTGAGAAAGTTTTCGACCCTCAGAATGATAAACCCAGCAAGT  
GGTGGACTTGCTTTGTGAAGAGACAGTTCATGAATAAGAGTCTTTCAGGACCTGGGCAGTGAAGGGAGCCCGGGC  
AGCCACCGTCTC

3640/6881  
**FIGURE 3354**

MIYITLYISECLKKLQKCNSPGKPGFLLNAIYAKPANKQEDEVMRAYLQQLRQETGLRLCEKVDFPQNDKPSKWW  
TCFVKRQFMNKSLSGPGQ

3641/6881  
**FIGURE 3355A**

AGGGGCACTATGGCAGACAAAGTTAGGAGGCAGAGCCGAGGAGGCGAGTCTGTTGGGCCTTGGTGGCTGTGCTC  
TTGGCAGACCTGTTGGCACTGAGTGATACACTGGCAGTGATGTCTGTGGACCTGGGCAGTGAGTCCATGAAGGTG  
GCCATTGTCAAACCTGGAGTGCCCATGGAAATTGTCTTGAATAAGGAATCTCGGAGGAAAAACCGGTGATCGTG  
ACCTGAAAGAAAAATGAAAGATTCTTTGGAGACAGTGACGAAGCATGGCGATTAAGAATCCAAAGGCTACGCTA  
CGTTACTTCCAGCACCTCTGGGGAAGCAGGCAGATAACCCCATGTAGCTCTTTACCAGGCCCGCTTCCCGGAG  
CACGAGCTGACTTTTGACCCACAGAGGCAGACTGTGCACTTTTCAATCAGCTCGCAGCTGCAGTTCTCACCTGAG  
GAAGTGTGGGCATGGTTCTCAATTATCTCGTTCTCTAGCTGAAGATTTTGAGAGCAGCCCATCAAGGATGCA  
GTGATCACCGTGCCAGTCTTCTTCAACCAGGCCGAGCGCCGAGCTGTGCTGCAGGCTGCTCGTATGGCTGGCCTC  
AAAGTGCTGCAGCTCATCAATGACAACACCGCCACTGCCCTCAGCTATGGTGTCTTCCGCCGAAAGATATTAAC  
ACCACTGCCCAGAAATATCATGTTCTATGACATGGGCTCAGGCAGCACCGTATGCACCATTTGTGACCTACCAGATG  
GTGAAGACTAAGGAAGCTGGGATGCAGCCACAGCTGCAGATCCGGGGAGTAGGATTTGACCGTACCCTGGGGGGC  
CTGGAGATGGAGCTCCGGCTTCGAGAACGCTGGCTGGGCTTTTCAATGAGCAGCGCAAGGCTCAGAGAGCAAAG  
GATGTGCGGGAGAACC CGCGTGCCATGGCCAAGCTGTGCGTGAGGCTAATCGGCTCAAACCGTCTCAGTGCC  
AACGCTGACCACATGGCACAGATTGAAGCCTGATGGATGATGTGGACTTCAAGGCAAAAGTGAAGTCTGTGGAA  
TTTGAGGAGTTGTGTGCACTTGTGTTGAGCGGGTGCCTGGGCCTGTACAGCAGGCCCTCCAGAGTGCCGAAATG  
AGTCTGXXXXXXXXXXXXXGTGATCCTGGTGGGTTGGGCCCACTCCGGGTCCCCAGAATTCAAGAAGGTGCTG  
CTGAAGXXXXXXXXXXGAGGAGCTGGGGAAGAATCAATGCAGATGAAGCAGCCGCTATGGGGCAGTGATAC  
CAGGCAGCTGCGCTCAGCAAAGCCTTTAAAGTGAAGCCATTGTGCTCCGAGATGCAGTGGTCTACCCCATCCTG  
GTGGAGTTACAGAGGGAGGTGGAGGAGGAGCCTGGGATTACAGCCTGAAGCACAATAACGGGTACTCTTCTCT  
CGGATGGGGCCCTACCTCAACGCAAAGTCATCACCTTTAACCGCTACAGCCATGATTTCAACTTCCACATCAAC  
TACGGCGACCTGGGCTTCTGGGGCCTGAAGATCTTCGGGTATTTGGCTCCCAGAATCTGACCACAGTGAAGCTA  
AAAGGGGTGGGTGACAGCTTCAAGAAGTATCCTGACTACGAGTCCAAGGGCATCAAGGCTCACTTCAACCTGGAT  
GAGAGTGGCGTGCTCAGTCTAGACAGGGTGGAGTCTGTATTTGAGACACTGGTAGAGGACAGCGCAGAAGAGGAA  
TCTACTCTCACCAAACCTTGCCAACACCATTCCAGCCTGTTTGGAGGCGGTACCACACCAGATGCCAAGGAGAAT  
GGTACTGATACTGTCCAGGAGGAAGAGGAGAGCCCTGCAGAGGGGAGCAAGGACGAGCCTGGGGAGCAGGTGGAG  
CTCAAGGAGGAAGCTGAGGCCCACTGGAGGATGGCTCTCAGCCCCACCCCTGAACCTAAGGGAGATGCAACC  
CCTGAGGGAGAAAAGGCCACAGAAAAAGAAAATGGGGACAAGTCTGAGGCCAGAAACCAAGTGAAGGCAGAG  
GCAGGGCCTGAGGGCGTGCCTCCAGCCCCAGAGGGAGAGAAGAAGCAGAAGCCCGCCAGGAAGCGGCGAATGGT  
AGAGGAGATCGGGGTGGAGCTGGTTGTTCTGGACCTGCCTGACTTGCCAGAGGATAAGCTGGCTCAGTCGGTGCA  
GAAACTTCAGGACTTGACACTCCGAGACCTGGAGAAGCAGGAACGGGAAAAAGCTGCCAACAGCTTGAAGCGTT  
CATATTTGAGACCCAGGACAAGCTGTACCAGCCGAGTACCAGGAAGTGCCACAGAGGAGCAGCGTGAGGAGAT  
CTCTGGGAAGCTCAGCGCCGCATCCACCTGGCTGGAGGATGAGGGTGTGGAGCCACCACAGTGTGTTGAAGGA  
GAAGCTGGCTGAGCTGAGGAAGCTGTGCCAAGGGCTGTTTTTCGGGTAGAGGAGCGCAAGAAGTGCCCCGAACG  
GCTGTCTGCCCTCGATAATCTCCTCAACCATTCCAGCATGTTCTCAAGGGGGCCCGGCTCATCCAGAGATGGA  
CCAGATCTTCACTGAGGTGGAGATGACAACGTTAGAGAAAGTCATCAATGAGACCTGGGCCTGGAAGAATGCAAC  
TCTGGCCGAGCAGGCTAAGCTGCCCGCCACAGAGAAGCCTGTGTTGCTCTCAAAGACATTGAAGCTAAGATGAT  
GGCCCTGGACCGAGAGGTGCAGTATCTGCTCAATAAGGCCAAGTTTACCAAGCCCCGGCCCCGGCTTAAGGACAA  
GAATGGGACCCGGGCAGAGCCACCCCTCAATGCCAGTGCCAGTGACCAGGGGGAGAAGGTATCCCTCCAGCAGG  
CCAGACTGAAGATGCAGAGCCCATTTCAAGACCTGAGAAAGTAGAGACTGGATCCGAGCCAGGAGACACTGAGCC  
TTTGGAGTTAGGAGGTCTGGAGCAGAACCTGAACAGAAAGAACATCGACAGGACAGAAGCGGCCCTTTGAAGAA  
CGACGAACTATTACCCCACTCTGTTTTCCCAATTCATCTCCACCCCTTCCCCACCACTTCTATTATTTAA  
CATCGAGGGTTGGGGGAGGGTTGGTCTGCCCTCGGCTGGAGTTCCTTTCTACCCCTGTGATTTGGAGGTGTG  
GAGAAGGGGAAGGGAGGGACAGCTACTGGTTCTTCTGCAGTACCTCTGTGGTTAAAAATGGAAGTGTCTCCT  
CCCCAGCCCCACTCTGTTCCTACCCATATAGGCCAAATTTGGGAAAATCACTATTATTTCTGAATCCTTTG  
CCTGTGCGGTAGGAAGAGAATGGCTGCCAGTGGCTGATGGGTCCCGGTGATGGGAAGGGTATCAGGTTGCTGGGG  
AGTTTCCACTCTTCTGTTGATGTTCTTCCCTCCCTTCTCTCCACCATGCGATGAGCATCCTTTAGGCC  
AGTGTCTGCAGAGCCTCAGTTACCAGGTTTGGTTTCTGAGTGCCTATCTGTGCTCTTCTCCCTCTGCGGGCTT  
CTCTTGCTCTGAGCCTCCCTTCCCCATTCCCATGCAGCTCCTTTCCCTGGGTTTCTTGGCTTCTGCGAGCAA

3642/6881  
**FIGURE 3355B**

ATTGGGCAGTTCTCTGCCCCCTTGCCCTAAAAGCCTGTACCTCTGGATTGGCGGAAGTAAATCTGGAAGGATTCTCA  
CTCGTATTTCCACCCCTAGTGGCCAGAGGAGGGAGGGGCACAGTGAAGAAGGGAGCCCACCACCTCTCCGAAGA  
GGAAAGCCACGTAGAGTGGTTGGCATGGGGTGCCAGCATCGTGCAAGCTCTGTCATAATCTGCATCTTCCCAGCA  
GCCTGGTACCCAGGTTCCCTGTAACCTCCCTGCCTCCTCCTCTCTCTGCTGTTCTGCTCCTCCCAGACAGAGCCT  
TTCCCTCACCCCTGACCCCTGGGCTGACCAAATGTGCTTTTCTACTGTGAGTCCCTATCCCAAGATCCTGGGG  
AAAGGAGAGACCATGGTGTGAATGTAGAGATGCCACCTCCCTCTCTCTGAGGCAGGCCTGTGGATGAAGGAGGAG  
GGTCAGGGCTGGCCTTCCTCTGTGCATCACTCTGCTAGGTTGGGGGCCCCGACCCACCATACCTACGCCTAGGG  
AGCCCGTCTCCAGTATTCCGTCTGTAGCAGGAGCTAGGGCTGCTGCCTCAGCTCCAAGACAAGAATGAACCTGG  
CTGTGTCAGTCATTTTGTCTTTTCCTTTTTTTTTTTTTTTTGGCACATTGGCAGAGATGGGACCTAAGGGTCCCAC  
CCCTCACCCACCCACCTCTTCTGTATGTTTGAATCTTTTCACTAGCTGTTGATGCTGGTTGGACAGGTTTGA  
GTCAAATTGTACTTTGCTCCATTGTTAATTGAGAACTGTTTCAATAAAATATCTTTTCTAC





3644/6881  
**FIGURE 3357**

GGAGGGCTCAAGGGGCTCTAAGAGGGAAAAGCTCCCCACACCCCCAGATGCTGCTCCTCCTCCCGGCTAGAGGGGA  
ACCCAACACCCACCAGTGAAATCTGATGCAGCTGGGAGTTTGGACCTTGGGTCTAGACAGCTGGTGCGCCCAAGA  
GGTAGGGGGAGGGGTGCGGCTTCTCCCCAGTTCCAGGGAGTCTTGTTTGTAAAGCGGGGCCCTGGGCAGTGTTT  
TCCTGCTGAGGGTGGTTTTACATTTTTTTTTCTCATTGGCCACAGAGAGTGGAGTTGGCCTAGCTCTGACGCGT  
CCCCCTCTTTATCCCCAATGTGCCCCCTCCATTAGGGGCTCCAGGTGGGCTCCAGCCACACITGCTCTCTGCCTC  
TGCTGACACGTGCACACACACACATGCACACACTGCTCCTCTCTGCCTGCTTTCCCCTGGAGTCCCATGCCCCT  
GCCCCATCCAGACACTGCCAAGGCCACCCGCTCTATTTCCACCTCATTCCCCCTTTAAGCTGAGAATGGGGTCT  
GCCTATAGAAGCTTCCAGAGACAGCTGAGACTGGGTCCCCGGTGCCTCCACCCTAGGATCTCAGGCCTGCCCCAA  
ACTGCTTCTTACAGCGTGGAGGTTTTCTCTGATTTCTCCCTTATCTAGCAACACTTGTTTCTTTTGGCTAGTCAGG  
GCTGGGATCCAGGGGGATCCACCTGCAGGAGTCAGAGGTAAGAAGCATCCACACGGAGGGTAGTGGGGAAGGA  
AGCCACATGGCAGAAGCTCTGCAAACACAGTCCGAGGGACTGAGGAGTCCATAAATGCCTCACACACAAAGGC  
CATTGTCAAAGCCTCGGGCCTGGCAGAAAGTGAGGGGGGTGGGGCCGCTAGGCCACCTCCTGCTCAGCCACCCCT  
GGTCTCTATTCTGGGATGAGGGGGAGGGCCTAGGAGAAGCCCTCCCTTTTCAGTGCAGATTCCCTTCTTGAATGGG  
ACATTGAGTTCTATCAGCCACCCAGACTGGGTCTTCCATGTATATAATGGAGGAAGACCCCTCCAGCCCTC  
TCAGTCCCCCAACTCAAAGTGCTCAGTTCTCCATCTGCTCCAGATCCCTGGCACTCTAGACAGGCATGCCC  
ATGGGAAGGACCCTGGGATGGAGAGGCAGGCTTCGCGGCCCTTCATGCCTGCCCCACTGGGATTCCAGTTAACTCA  
CCCCAGGTGTGAGGGGCTCTGCAGGATGGCAAGTGTGGGGAGGAGGAGGCAGACCACTCTGTGCCCCACGGG  
CACTGACCCACCCCTGCCATAGGTTTCTAAAGGGAGGXCCCCAAAACCTCTCCCTCCCTCCCTCCCTGGTGC  
TGCTATTGAACCCCTGCCAGCTCCATTTCTGCCCTGGCAACCCTGGGCCAGCAGGTGGTCTGCTGTCTGTG  
CCCTCACTGCCCTGGCCCCAGCCAGGCTGCCAGTAGCCACGTAGCAGAAGTCTGAAGCCATGCCAGCCCTGGT  
GCGGCTCTCCCTCTACACATTTGGGGTACTGGATAGGGTGAAGTTAGGGGAGAAAATTGTGGAGTCTTTCCAGC  
CACAGGGCAGAGGGAGGTGGAGGAGCTGGGCTGCTTTTCCAGCAGTATTAGTGTCCCCCAGGACAGGGGACCTT  
TTCCACATTACATCACTGCCCCATCCCACCTTACAACACTCTGCCCCCTCTGCTTGGTCCCTTTTCCCCCAGGC  
AGGAGGCAATCCAGGGGCTGCCTGATAGAGGCATTTCCTGTCCCTGTCTCCTCCTGCATCTCCTTTATCCTGC  
ACTGCCACCCTCTATTCCCATTCTGTGTTGGACTTTGAAGGCCCAAGCCAGCCAAAGCACTGAGTTCCCCCT  
TAAGACACCTCCACACCCTCCCCACAAGCAAAGCACAAATTTTGGGGTCCATGTAGCATGGGCCACGTAGGAGGC  
TCCTGACTTGCCAGGGGCCAGCCTCAGCATACCCACCGAGCAGCTGCCAGCCTGGGCTGAGGGTGGGCATGAGG  
CAGGAGTCAGCACTTGACCTAGGGATGTGAGGTTTTCTGTGCCCAAGTTTGTGGGAAGGTGGGCACTACTGCT  
GGGCCCCACAGACACAGCCAGCTGGCAAAAGGGAGGTCTAGCCAGCAGAGAGATGAGGACATTTTGCTTCTCCTT  
CATGCCCCACAGCATGAGCTGAGCTTCTGCTTGTGGAATGAAATAAACTTGGTATGAATTGTGCCAAGGCCTC  
CCAGTTGTATCTCTGCCTCTTGTTGCCCTCCCTGTCTTGCCCCCACCCACACCCATGCCCTGTTTCTT  
CAGATTTTGATATTGTTCTAATGTGTAATAGAACAGCCGAGTCCCTTTTATCAGAAGGGTCTGAAAAGCAGCA  
GCACAGAGTAGGTGAACACAGGCCTGCAAGTGCAGCACCTCAGACCCAGTACGTGTGCCACAGTGGACACACT  
CACACCTCCAACACACCCACGCGCAGGCATGTGTACACGCATGTACACACGCATGCATGCACAGCCAGATGGCCA  
CTCAGCACAGATGTGGCAGAGGGAATGGTCTGATCCTGCTGAAAGCCATTAAGGAGAAACGAATTTCCAGTGCC  
CGGGCTGCAAGAGAGCCTTATAGGGGCCCTGTTTCTGGGCATGCGCTTCCCTCTGCCAGCCAACCCCACTTGCC  
CAAGTCACTGGTGCAATAACTTTTCTGCCTTCTCAGAGCAGAGAAATTGGGAATTGTGTTAGGTGGGTGTGGGC  
AGCTCTGCTGAGCCAAGCAGACACGGATGTCCCTCTTCTGGGAGGAGGGTAGTGTCCAGGCCCTCAGGAGTCC  
AGACAGAGACCCCCAAAGCCTGACTGCCAACAGAAACCCTCTCCTAGTGAGGGGCAGGTGGGTGTGCCCCAGGTC  
CCCACACCCACAGGGAGGCTTACACACTGCCAGTACCGGGGATGCCAGGAGGCAGGCCCTCTGCTGCTGCCA  
CTGCTGCCAACACTGCCAGCTTGTGAGGCCAGGAGGAGCCCTGTCCACTCGGTGCTGCTGCTCTTCTGACCC  
CTGCTGTGAGGAATGGGATTCTTGGTGCAGAAAAATTGGTTTTCTTTTTTGTATAAATGAAAAGAAATCCAGGAGA  
AGCTGCCACCCTCCCTCCAGCGTGATGCGCTACCTTGCTTCGGCGTCTTGTGCGCCTTTCCGCTTTTGGTCCA  
GGGACAGCCACAGCAGATCCTCCTGGTTCTGACCTGGGGGTGTTTGCATCACCCCTTTTACTGTATTAAAAA  
AAATGATGGGTTGAAAATGTACTGAGGATTAAAAATGTACTTTTTTATAAATAAAGTGTTTAAAC

3645/6881  
**FIGURE 3358**

CAGGCATCCAAAGCTGAGGTCGCTCCTACGGCCTGGGCTCGCCTTCGCTTTAGAGATGTTTGGCCTCTTCCCTCC  
CAAACAGCCCATCTTCAAACCTGGACTCTTGGACTGGCACCTGGCCACCTTTCCTCTACCAAGACTCCACTTC  
CGTCTTACCCACTTCTTCCCTCAGATTCTTGGTACCCCTGGGTTGGAGACTGCTCATTTTCCTTCCAAATTAATC  
CCAGACCCCTAAATATTGACAACCTTGACAACCCCCAACCGAGGAGCCAGACTTTGTTTTGGACTAACTTCC  
ATAGCCCTATCATGGAGGCAGTGTAACCTGGTAGTGAATGGGTGGGCCTGGTGTGCTGGACGTGCTGACCTTGGTGT  
TGGACCTCAACTTCTGTGGTGTCTTCCCTCCTGGCTTCCCTGGCCTGGCTCCTGGCCTTCGTCTACAACCTGC  
CGCACACGGTACTGACTAGTCTTCTGCACTTGGGCCGCGGAGTCTTGCTTTTCATTGCTGGCCTTGATCGAAGCCG  
TGGTCCGGTTACATGTGGGGGCTTGCAGGCCCTGTGTACTCTGCTGTATAGCTGCTGCTCTGGCCTAGAGAGCC  
TAAAGCTCCTGGGGCACCTGGCCTCTCATGGGGCACTGCGGAGCAGGGAGATACTGCACCGGGCGTCTCAATG  
TGGTCTCCAGTGGCCATGCTTTGCTGCGCCAGGCCTGTGACATCTGTGCCATTGCCATGAGCCTGGTGGCTTATG  
TGATCAACAGCCTGGTCAACATCTGCCTCATCGGCACTCAGAACCTCTTTCCCTGGTGTGGCCCTGTGGGATG  
CAGTGACCGGGCCTCTGTGGAGGATGACAGACGTAGTGGCTGCCTTCCTAGCCACATTTCCAGCAGTGTGTGG  
CCATGGCCATCCTCCTTTGGACACCTGCCAACTAGCCCTGGAGCTGCTGGCCTCAGCTGCCCGCCTCCTGGCCA  
GCTTTGTGCTTGTCAATCTCACTGGCTTGGTGTGCTAGCTTGTGTGCTGGCAGTGACGGTGACTGTGTGCATC  
CGGACTTCACCTGAGGCTGGCTACCCAGGCACCTCAGCCAGCTCCATGCCCCGCCATCCTACCACCGTCTTCGAG  
AGGATGTCAIGCGGCTCTCTCGCCTAGCACTGGGCTCAGAGGCCTGGCGCCGAGTCTGGAGCCGAGTCTGCAGC  
TGGCGAGTTGGCCAAACCGGGGAGGGGCACCTGGAGCTCCCCAGGGTGACCCTATGAGGGTATTCTCAGTTAGGA  
CCCGGAGACAGGACACTCTTCCCTGAAGCGGGGCGCAGATCAGAGGCAGAAGAGGAGGAGGCCAGGACCATCAGAG  
TGACACCTGTGAGGGGCCGAGAGAGGCTCAATGAGGAGGAGCCTCCAGGTGGGCAAGACCCTTGGAATTTGCTGA  
AGGAGCAAGAGGAGCGGAAGAAGTGTGTCTATCTGCCAGGACCAGAGCAAGACAGTGTGCTCCTGCCCTGCCGGC  
ATCTGTGCTGTGCCAGGCCTGCACTGAAATCCTGATGCCACCCCGTCTACCACCGCAATTGCCCGCTCTGCC  
GCCGGGGCATCCTGCAGACCCTCAATGTCTACCTCTGAAGCCTCCTTCCTGCCTGCCACCCCTCCATGCTCCA  
CGCAGGCACTCACGCTAGGACAGCATTAAACAC

3646/6881

## FIGURE 3359

GGCACGAGGGGCCACCGAGGCGCTGTCCCTGACCACCAGCACGAGACCCCTTTCTATCGCGCCAGTCCTGTGGTC  
TCCGCACCTCTCCAGCTCCTGCACCCCCGCCCCCGTGGTTCCAGCCGCACAGTAGCGTGTCTGGGTAGCGTG  
AGGACCCACGGGGCTGAGCAGGTGCCACGAGCCCGCCGCTCTTCGCCGCCGCCGCTCTCTCTCTCCCCGCC  
CGCCGCTTGGCCCTCCCTTACCAGGCTGAGCCTCTGGCTGCCAGAAGCGCGGGGCTCCGGGAGAATACGTGCGG  
TCGCCCCGCTCCGCGTGCCTACGCCCTCTGCTCCAGTTGCTTTCCCAATTGAGCGGAAAAAGCCGGGGCATGTTG  
CCGGGGCCCTGGGCGGGACGGTTGTGCCCTGCAGCCGAAGCCCGCGGGGCACCTTCCCGCCACGAGCTGCCC  
AGTCCCTCTGCTTGGCGCCCTGCCAACGTCCACAGGACACTGGGTCCCCTTGGAGCCTCCCGAGGCTTAATGA  
TTGTCCAGAAGGCGGCTATAAAGGGAGCCTGGGAGGCTGGGTGGAGGAGGAGCAGAAAAACCCAACTCAGCAG  
ATCTGGGAAGTGTGAGAGCGGCAAGCAGGAAGTGTGGTCAGAGGCTGTGCGTCTTGGCTGGTAGGGCCTGTCTTT  
TTCTACCATGGCAGCCAGGGCTATGGCTATTATCGCACTGTGATCTTCTCAGCCATGTTTGGGGCTACAGCCT  
GTATTACTTCAATCGCAAGACCTTCTCCTTTGTATGCCATCATTGGTGGAGAGATCCCTTTGGACAAGGATGA  
TTTGGGGTTTCATCACCAGCAGCCAGTCGGCAGCTTATGCTATCAGCAAGTTGTCAAGTGGGGTGTGTCTGACCA  
GATGAGTGCTCGCTGGCTCTTCTCTTCTGGGCTGTCTCTGGTTGGCTGGTCAACATATTCTTTGCCCTGGAGCTC  
CACAGTACCTGTCTTTGCTGCCCTCTGGTTCTTAATGGCCTGGCCAGGGGCTGGGCTGGCCCCCATGTGGGAA  
GGTCTCGCGAAGTGGTTTGAAGCATCTCAGTTTGGCACTTGGTGGGCCATCTGTCAACCAGCATGAACCTGGC  
TGGAGGGCTGGGCCCTATCCTGGCAACCATCCTTGGCCAGAGCTACAGCTGGCGCAGCAGCTGGCCCTATCTGG  
GGCACTGTGTGTGGTTGTCTCCTTCTCTGTCTCCTGTCTATCCACAATGAACCTGCTGATGTTGGACTCCGCAA  
CCTGGACCCCATGCCCTCTGAGGGCAAGAAGGGCTCCTTGAAGGAGGAGACCCCTGCAGGAGCTGCTGTCTGT  
CCCTTACCTGTGGGTGCTCTCCACTGGTTACCTTGTGGTGTGGAGTAAAGACCTGCTGTACTGACTGGGGCCA  
GTTCTTCTTATCCAGGAGAAAGGACAGTCAGCCCTTGTAGGTAGCTCCTACATGAGTGCCCTGGAAGTTGGGGG  
CCTTGTAGGCAGCATCGCAGCTGGCTACCTGTGACACGGGCCATGGCAAAGGCGGGACTGTCCAACCTACGGGAA  
CCCTCGCCATGGCCTGTTGCTGTTTATGATGGCTGGCATGACAGTGTCCATGTACCTCTTCCGGGTAAACAGTGAC  
CAGTGAATCCCCAAGCTCTGGATCCTGGTATTGGGAGCTGTATTGGTTTCTCCTCGTATGGCCCCATTGCCCT  
GTTTGGAGTCATAGCCAACGAGAGTGCCCTCCCAACTTGTGTGGCACCTCCACGCCATTGTGGGACTCATGGC  
CAATGTGGGCGGCTTTCTGGCTGGGCTGCCCTTACGACCATTTGCCAAGCACTACAGTTGGAGCACAGCCTTCTG  
GGTGGCTGAAGTGATTTGTGCGGCCAGCACGGCTGCCTTCTTCTCTTACGAAACATCCGCACCAAGATGGGCCG  
AGTGTCCAAGAAGGCTGAGTGAAGAGAGTCCAGTTCCGGAGCACCATCCACGGTGGCCTTCCCCCTGCACGCT  
CTGCGGGGAGAAAAGGAGGGGCTGCCTGGCTAGCCCTGAACCTTTCATTTCCATTTCTGCGCCTTTTCTGTCA  
CCCGGGTGGCGCTGGAAGTTATCAGTGGCTAGTGAGGTCCAGCTCCCTGATCCTATGCTCTATTTAAAAGATAA  
CCTTTGGCCTTAGACTCCGTTAGCTCCTATTTCTGCTTTCAGACAAACAGGAACTTCTGCAGTCAGGAAGGCT  
CCTGTACCCTTCTTCTTTTCTAGGCCCTGTCTTCCCGCATCTACCCCATCCCACTGAAGTGAGGCTATCC  
CTGCAGCTGCAGGGCACTAATGACCCCTTGACTTCTGCTGGGTCTTAAGTCTCTCAGCAGTGGGTGACTGCTGTT  
GCCAATACCTCAGACTCCAGGAAAGAGAGGAGGCCATCATTCTCACTGTACCACTAGGCGCAGTTGGATATAGG  
TGGGAAGAAAAGGTGACTTGTATAGAAGATTAAACTAGATTTGATACTGAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAA

3647/6881  
**FIGURE 3360**

MAAQGYGYRTVIFSAMFGGYSLYYFNRTFSFVMPSLVEEIPDKDDLGFITSSQSAAYAISKFVSGVLSQMS  
ARWLFSSGLLLVGLVNIFFAWSSTVPVFAALWFLNGLAQGLGWPPCGKVLRKWFEP SQFGTWAILSTSMNLAGG  
LGPILATILAQSYSWRSTLALSGALCVVVSFLCLLLIHNEPADVGLRNLDPMPSSEKKGSLKEESTLQELLSPY  
LWVLSTGYLVVFGVKTCCTDWGQFFLIQEKQSALVGSSYMSALEVGGLVGSIAAGYLSDRAMAKAGLSNYGNPR  
HGLLLFMMAGMTVSMYLFRTVTSDSPKLWILVLGAVFGFSSYGPIALFGVIANESAPPNLCGTSHAIVGLMANV  
GGFLAGLPFSTIAKHYSWSTAFWVAEVICAASTAAFFLLRNIRTKMGRVSKKAE

3648/6881  
**FIGURE 3361**

CTTCCTTTTTGTCCGACATCTTGACGAGGCTGCGGIGTCTGCTGCTATTCTCCGAGCTTCGCAATGCCGCCTAAG  
GACGACAAGAAGAAGAAGGACGCTGGAAAGTCGGCCAAGAAAGACAAAGACCCAGTGAACAAATCCGGGGGCAAG  
GCCAAAAGAAGAAGTGGTCCAAAGGCAAAGTTCGGGACAAGCTCAATAACTTAGTCTTGTTTGACAAAGCTACC  
TATGATAAACTCTGTAAGGAAGTTCCCAACTATAAACTTATAACCCAGCTGTGGTCTCTGAGAGACTGAAGATT  
CGAGGCTCCCTGGCCAGGGCAGCCCTTCAGGAGCTCCTTAGTAAAGGACTTATCAAACCTGGTTTCAAAGCACAGA  
GCTCAAGTAATTTACACCAGAAATACCAAGGGTGGAGATGCTCCAGCTGCTGGTGAAGATGCATGAATAGGTCCA  
ACCAGCTGTACATTTGGAAAAATAAACTTTATTAAATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3649/6881  
**FIGURE 3362**

MPPKDDKKKKDAGKSAKKDKDPVNKSGGKAKKKKWSKGKVRDKLNNLVLFDKATYDKLCKEVPNYKLITPAVVSE  
RLKIRGSLARAALQELLSKGLIKLVSKHRAQVIYTRNTKGGDAPAAGEDA

3650/6881  
**FIGURE 3363**

GAAGAAAACAGCCCAAAGATGAGAGTGATTGCGGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGAC  
AGTGTGGTGGCAACATTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGAC  
AAGATTCTTGATACTGCACTCTCTAAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAG  
AAGAATGAAGTGGACCTGGTTGTTCACTCCTTGAAGGACCTGCCCAGTGTGCTTCCTCCTGGCTTCACCATCGGA  
GCCATCTGCAAGCGGGAAAACCTCATGATGCTGTTGTCTTTCACCCAAAATTTGTTGGGAAGACCCTAGAAACC  
CTGCCAGAGAAGAGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCCAGCTGCAGAGAAAGTTCCCGCATCTG  
GAGTTCAGGAGTATTCGGGGAAACCTCAACACCCGGCTTCGGAAGCTGGACGAGCAGCAGGAGTTCAGTGCCATC  
ATCCTGGCAACAGCTGGCCTGCAGCGCATGGGCTGGCACAACCGGGTGGGGCAGATCCTGCACCCTGAGGAATGC  
ATGTATGCTGTGGGCCAGGGGGCCTTGGGCGTGGAAGTGCAGCCAAGGACCAGGACATCTTGGATCTGGTGGGT  
GTGCTGCACGATCCCGAGACTCTGCTTCGCTGCATCGCTGAAAGGGCCTTCCTGAGGCACCTGGAAGGAGGCTGC  
AGTGTGCCAGTAGCCGTGCATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGAGGAGTCTGGAGTCTAGAC  
GGCTCAGATAGCATACAAGAGACCATGCAGGCTACCATCCATGTCCCTGCCCAGCATGAAGATGGCCCTGAGGAT  
GACCCACAGTTGGTAGGCATCACTGCTCGTAACATTCCACGAGGGCCCCAGTTGGCTGCCCAGAACTTGGGCATC  
AGCCTGGCCAACCTTGTTGCTGAGCAAAGGAGCCAAAACATCCTGGATGTTGCACGGCAGCTTAACGATGCCCAT  
TAACTGGTTTGTGGGGCACAGATGCCTGGGTTGCTGCTGTCCAGTGCCTACATCCCGGGCCTCAGTGCCCCATTC  
TCACTGCTATCTGGGGAGTGATTACCCCGGAGACTGAACTGCAGGGTTCAAGCCTTCAGGGATTGCTCACC  
TTGGGGCCTTGATGACTGCCTTGCTCCTCAGTATGTGGGGGCTTCATCTCTTAGAGAAGTCCAAGCAACAGCC  
TTTGAATGTAACCAATCCTACTAATAAACAGTTCTGAAGGT

3651/6881  
**FIGURE 3364**

CGCAGACCTATGAATGAAGATGGAGGGAGAGCTGATGTGAAAGGCCTGGGTCCCGGCCGCGAGAAGGGGCGCCAGA  
CCGAAATCAGCGATCGCGTCTCTCCACCAAAGCCTCCCGGCCAGCGGCCGCGTCTGAAAGAAGAAAACAGCCCA  
AAGATGAGAGTGATTGCGGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTGGTGGCAACA  
TTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACT  
GCACTCTCTAAGGGATTCACTCAGGCTCTTTCTGTCCGGCAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTT  
GAACATGCCCTGGAGAAGAATGAAGTGGACCTGGTTGTTCACTCCTTGAAGGACCTGCCCCTGTGCTTCCTCCT  
GGCTTCACCATCGGAGCCATCTGCAAGCGGGAAAACCCTCATGATGCTGTTGTCTTTCACCCAAAATTTGTTGGG  
AAGACCCTAGAAACCCTGCCAGAGAAGAGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCCAGCTGCAGAGA  
AAGTTCCCGCATCTGGAGTTCAGGAGTATTGTATCCTTTTAG



3652/6881  
**FIGURE 3365**

ATGTCGGGCCGCGGCAAGACTGGCGGCAAGGCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCCGGCCTCCAG  
TTCCCAGTGGGCCGTGTACACCGGCTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGCCGGCGCGCCAGTG  
TACCTGGCGGCAGTGCTGGAGTACCTCACCCTGAGATCCTGGAGCTGGCGGGCAATGCGGCCCGCGACAACAAG  
AAGACGCGAATCATCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGGC  
GTGACGATCGCCAGGGAGGCGTCCTGCCCAACATCCAGGCCGTGCTGCTGCCCAAGAAGACCAGCGCCACCGTG  
GGCCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCTCCCAGGAGTACTAA

3653/6881

**FIGURE 3366**

CCCAGAATCCCAGGGAGTGATCAGCGGTGCTGTTTTCTTATCATCCTCTTCTGCTTCAICCCCTTCCCCTTCCT  
GAACTGCTTTGTGAAGGAGCAGTGTAAGGCATTCCCCCACCATGAATTTGTGGCCCTGATAGGTGCCCTCCTTGC  
CATCTGCTGCATGATCTTCCTGGGCTTTGCGGATGATGTACTGAATCTGCGCTGGCGCCATAAGCTGCTGCTACC  
TACAGCTGCCTCACTACCTCTCCTCATGGTCTATTTACCAACTTTGGCAACACGACCATTGTGGTGCCCAAGCC  
CTTCGCCCCGATACTTGGCCTGCATCTGGACTTGGGAATCCTGTACTATGTCTACATGGGGCTGCTGGCAGTGT  
CTGTACCAATGCCATCAATATCCTAGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCATTTCTGCTTC  
CATCATTGTCTTCAACCTGGTAGAGTTGGAAGGTGATTGTGGGATGATCATGTCTTTTCCCTCTACTTCATGAT  
ACCCTTTTTTTTTACCACCTTTGGGATTGCTCTACCACAACTGGTACCCATCACGGGTGTTTGTGGGAGATACCTT  
CTGTTACTTTGCTGGCATGACCTTTGCCGTGGTGGGCATCTTGGGACACTTCAGCAAGACCATGCTACTATTCTT  
CATGCCCCAGGTGTTCAACTTCCTCTACTCACTGCCTCAGCTCCTGCATATCATCCCCTGCCCTCGCCACCGCAT  
ACCCAGACTCAATATCAAGACAGGCAAACCTGGAGATGAGCTATTCCAAGTTCAAGACCAAGAGCCTCTCTTTCTT  
GGGCACCTTTATTTTAAAGGTGGCAGAGAGCCTCCAGCTGGTGACAGTACACCAGAGTGAGACTGAAGATGGTGA  
ATTCAGTGAATGTAACAACATGACCCTCATCAACTTGCTACTTAAAGTCCTTGGGCCCATAATGAGAGAAACCT  
CACATTGCTCCTGCTGCTGCTGCAGATCCTGGGCAGTGGCCATCACCTTCTCCATTGATATCAGCTCGTTTCGACT  
CTTCTATGATGTCTGAGTCCCTTGATCATTGTCTTTACCTCACAGTCTCTAGGATTCTGACTCAGGCTGACCT  
CTCTCTCTGGTCCCAGACTGCCTCCTTGCCCAGGCCTCTCTCACTCTTCATACTCCTCCAGATTTGTTCTCAGC  
ATTTTCCTTTCTCTGTGATCATTGGCATCCTGGGCGTTTCTTGCCCTCTGCTGACTACTGATTGGATTTTACCTA  
TGGCTTTCTGCAACTTGCTACTCTCTCCCTCTCCATCCCACTTGAGCCTCATAGGGTGGGATACAGCAGCTTT  
TTTGAGTTATCCACACTCACATTTAGAGTCCTGACTCTCAAGGAACCACTGGTTTTTGGGATAGAAGTTGGGC  
CAGGGCTAGGAACACAGGCTCCACGGTGACATGTCAATTTGATTGTAAATTAAGTGTCTGATTAGTAAGAATAA  
GCAGGGGGCCACATGCTCTCAATGGAGACAATAAAGTGTGTCTTTTCTT

3654/6881  
**FIGURE 3367A**

GCATGATTCCAGCAGGGGGCCGAGCCCTGGGCCCCCTACAGCCCTGTTCTGCAGAATCAGAAAGTCTGGTAA  
ATGGGAACCACACCCCCACAGACTGCAACACGGGGACCCCTGTCCTGTGCCAGCCACAGTTCCTTGGTGAGCTCTA  
TTGAGAAGGACCTGCAAGAGATCATGGACTCACTGGTGCTAGAGGAGCCTGGAGCTGCTGGCAAGAAGCCTGCCG  
CAACCTCTCCACTGTCAACGATGGCTAATGGTGGGCGCTACCTGCTGTCTCCCCAACAGCCCCGGCGCCATGT  
CTGTGGGCTCCAGCTATGAGAACACCTCTCCAGCCTTCTCTCCACTTCCTGCGGTTTGGGTTTCATGGCCAACTG  
TAAGTGATGAGAGACACTTGAGGAGGTCTAGGGACCCTAGAGAGCCATGGAAGCCTCACAAACCAGGCTTCAGGC  
CTATAGGTAGGCCTGCGGGAAAAGGCAACAAAGACCAGGAATGTGATTGTGTCATCCCTCCTTTACCTCCTAGGC  
CCCTGAGAGGTGACTGTATCTGGGTGGGTGTGTATGTGGAGAGGGGTGGATGAAGTGGTAGGGCCATGGGAGTAC  
TCACTCATGGGCCTGGGCATTCAAGGACTGGCAGCAGCCCATCCTGCTGATAAACAGCCAAGGGCTGCCTGAGGG  
TAACCTGGAGCTGAGGTGGGGACAAAGAGGGCCGTGTCCTTGGTCTACCTCTTCTCCATGTATGCTGTGGTTGG  
GTGCTGGTCCCTGTGGGCTCATGGGTCTGTTTTCCAGCACTGTCTGTCTGCATACATGCCACCTGTCTGTATG  
CTAGACTGTGTTTATCTGTGAGTGTGCATCAGTGTGCATTTGTGCATGTCAGGGCTGGTGTCTCTGTACTTGCCT  
ATTAATGCAGGGCCAGGGCACATGTTGTATCCTTGTGTGCCGTGTGCATCAGTGTGGTGTGTGCTATGTGTCT  
TGTGTCTGTAGATCTGTGTGTACCTGCGTCAGGACGAGCACTGAGTTTATCTGTGTCTCATTGGTCTGTAGT  
CTGCTTAACAGTGTGTTTCTGTATGTGTTTGTGTGTTACTGTGGGTCCATTGGTGTGTTTCTGTGTCTCTGG  
GGTAGACTGAAAAAAGAAAGGAACAGGAAGATGGAAGGGGCTGTCCAGAAGTGGGCAGGAAGAACCAGGCTGTT  
ATGCCATGTGGGCATGTGGCACAACAGCCTCGTTCCTGCCACTTCTGGGGCACCTTGTTCCTCTGCCTC  
CCCTAGGTCTTGGGGTCAGGCCTCTCCTGACTTGACACTGATGTCTAGCCCCCTGTAACCTGCTCTCCCTCCT  
GACAGGATACTGAACCTGGCTCTATCCCCACCAGGGCTCAGCTTCCTCCCTTCATGTCTGTCTGTCCATCCT  
CCCCAGGAACGCCAGCGCCTGGAGACCATCCTGAACCTGTGTGCCGAATACAGCCGGGCTGATGGGGGACCTGAG  
GCTGGGGAGCTTCCAGCATTGGGGAGGCCACCGCAGCATTGGCACTGGCAGGCCGGAGGCCCTCAGCAGGCCTT  
GCAGGGGCTCTGGGCGGAGCAGCGAGGAGCCTGGCGTTGCCACCCAACGCCTATGGGAGAGTATGGAGCGCTCA  
GATGAGGAAAATCTCAAGGAGGAGTGCAGCAGCACTGAGAGCACCAGCAGGAGCACGAAGATGCACCTAGCACC  
AAGCTCCAGGGAGAGGTGCTAGCCCTGGAAGAAGAGCGGGCTCAGGTGCTGGGGCAGCTGGAGCAGCTCAAGGTC  
CGTGTGAAGGAGCTAGAGCAGCAGCTGCAGGAGTCAGCCCCAGAGGCCGAAATGGAGCGGGCACTGCTGCAGGGA  
GAGAGGGAGGCAGAGCGGGCACTGCTGCAGAAGGAGCAGAAGGCAGTGGATCAGCTGCAGGAGAAGCTGGTGGCC  
TTGGAGACAGGCATCCAGAAGGAGAGGGACAAGGAGGCAGAGGCCCTGGAGACTGAGACAAAGCTTTTGAGGAC  
TTGGAGTTCCAGCAGTTGGAGCGGGAGAGCCGCTGGAGGAGGAGCGGAGCTGGCCGGCCAGGGGCTGCTCCGG  
AGCAAGGCTGAGCTGCTCCGACGATCGCCAAGAGGAAGGAGCGCCTGGCCATCCTGGACAGTCAGGCTGGGCAG  
ATCCGGGCTCAGGCCGTGCAGGAATCAGAACGCCTGGCCCGGGACAAGAATGCCCTTACAGCTGCTGCAAAAG  
GAGAAGGAGAAGCTGACTGTGCTGGAAAGGAGATACCACTCACTCACAGGGGGCAGGCCTTTCCCGAAGACCACA  
TCGACCTCAAAGAGATGGAGAAGCTGCTGCTCCCTGCTGTAGACTTAGAGCAGTGGTACCAGGAGCTGATGGCC  
GGGCTGGGGACTGCCCCCGCTGCAGCCTCCCCTCACTCTTCTCCCCCGCCTCTGCCCCGCAAAGCTTCCCGTCAG  
CTGCAGGTTTACCGCTCCAAGATGGATGGCGAGGCCACCAGCCCCCTTCCCCGGACCCGACGCGGCCCTCCCC  
TCCTCCTCTGGCTCTTCTCTCTCCTCCTCCCAGCTCAGCGTGGCTACCCTGGGGCGTAGCCCCCTCCCCAAAGAGC  
GCTCTACTCACCCAGAATGGCACGGGCAGCCTTCTCGCAACCTGGCAGCCACACTGCAGGACATCGAGACCAAG  
CGCCAAGTAGCTCTGCAGCAGAAGGGACAACAAGTGATTGAAGAGCAGCGGCGGCGACTGGCTGAGCTGAAGCAG  
AAAGCGGCAGCTGAGGCACAGTGCCAGTGGGATGCCCTTACGGGGCAGCACCTTCCAGCGGGGCCCTCGGGC  
TTCCCCCTCTCATGCACCACTCTATCCTACCCACCTGCCTGCGGGGCGGGAGCGTGGGGAGGAGGGTGAGCAC  
GCCTATGATACGCTGAGTCTGGAGAGCTCTGACAGCATGGAGACCAGCATCTCCACCGGGGGCAACTCGGCCTGC  
TCCCTGACAACATGTCCAGCGGAGTGGTCTGGACATGGGGAAGATCGAGGAGATGGAGAAGATGCTGAAAGAG  
GCTCATGCAGAGAAGAACCGGCTCATGGAGTCGAGGGAGCGGGAGATGGAGCTGCGGCGGCAGGCCCTGGAGGAG  
GAGCGGCGGAGGCGTGAGCAGGTAGAACGGAGGCTGCAGAGTGAGAGTGCCCGGAGGCAGCAGCTGGTCGAGAAG  
GAGGTCAAGATGCGGGAGAAACAATTTTCCAGGCACGACCCCTGACCCGCTACCTGCCAATCCGGAAGGAGGAC  
TTTGACCTGAAGACACATATTGAGTCATCGGGCCATGGTGTGATACCTGCCTGCAGTGGTGTCTCAGCAGCAAG  
GTCTGCCGTGGCTACTTGGTCAAGATGGGCGGCAAGATTAAATCATGGAAGAAGCGCTGGTGTCTTCGACCGG  
CTCAAGCGCACCCCTTTCCTATTATGTGGACAAGCATGAGACGAAGCTGAAGGGAGTCATCTATTTCCAGGCCATT  
GAGGAAGTGTAACGACCACCTGCGCAGTGCAGCCAAGAAGAGGTTTTTCCGCTTCACTATGGTGAAGTGAAGC

3655/6881  
**FIGURE 3367B**

CCGAACCCAGCCCTCACCTTCTGCGTAAAGACCCATGACCGGCTGTA CTACTACATGGTGGCCCCATCTGCAGAGGCC  
ATGCGTATCTGGATGGATGTCATTGTCACAGGGGCTGAGGGCTACACTCAGTTCATGAACAACTGCCGTGGGCC  
TCCTGGCAGAGCACAACTGGGGCTTTTGTATAAGAAGACTTTAATATTCTGTAAGGAGCTTGGTCCTGTGAGTTT  
CTGGGCTCTGGCCTCCTGAAGAACCAGCCAGAAGAAGAAAAGTAGAGGTGGCTTTGCTGCCTCCTGGGAGCCAG  
AACTTGCAGTAACCCCTTAGGGTCCTGCCCCAGGCCCAGCCAGGGCTGAGGAGCTGTCACAGAGAGGGCCTCAGC  
TCTGACCTGACACCTGCTCTCCCCAGCCTGTTTTCTCTTTTCTAAAAGACAAATTATGGTACCATAAGCTGCCAA  
AGATCCCCCTCCTGCCCTCAGACCCCTTTGCCAGGGGCTTTGGGGGCTGAGCAGAGCCACATCCAGAGTGGGGTAAT  
AGCTCAGGCGGCCCGCTTCCCATTCTCAAACCCCGCTCTGCCCCATTGTTCTCCTTTCCCTTATACTTTTTATT  
ACCTTGCTCAAGGGCCAGAGATCTCAAGTGTCAACCTTGAGGTCCCAGCTCCATCCCCTAGTTGCAGACTCATCA  
CCATGGTTACCATAGTGACTGCTTCATTGCCATGGTTACATACTAATTGCTGCAGCTCTGTGGCCAGCCCACTG  
CTTCAGCTGTGGGCCATCTGAGGGTACGTGCCATCATCTCTCCAGCCAGGCCCCCTGGGCATCTCATGCTGGGGG  
GAAGGGACTGAATACCTTTTTCTTCCCCCTGCCTGTGTCTTCAGCCCTGATGCACAGGCTGCCAGCCCCCAGT  
CCAGCCCTCTCCCTTCCACTGGTGCCTTGCTTAGAGCCAGAAGGGATGAAGCCGGGGGATCTATGGAACAGAGGA  
GGAGCGATGCAGTTGGGAGAGGAAGCTAGAAGGGTTATGGTTGGAGTTCTGTACAGTGTGAGTTTCCGACAGGG  
AAAGAGGATTCTCCAATGCTCCTAGAGAGAAAGCCTGAGCAGGAGATGATGCAGCAGAGGGGAAGGGCCCTGTG  
GTGCCGCCGCCCTTCCCTCAGCCTCCGAAGGGTGATGGAATGGAGAGTGGAGGACCAGGCCTCCAGCTGTCTGG  
CCTCGCCCTTCACGCCTTAACACTAAGCCCACCTCQCCCTGCTCTCCTTCCCAGCATTGAGCCCTTGGTTGCCCTGG  
GCCCAGGCTGGGGGTTTTTCAGTATTTGTAAGCATTTTCAGCAGAACAATAAAGCCTTTGGACTACGGAA

3656/6881  
**FIGURE 3368**

MDALNRNQIGPGCQTQTMVQKGPLDLIETGKGLKVQTDKPHLVSLGSGRLSTAITLLPLEEGRTVIGSAARDISL  
QGPGLAPEHCYIENLRGTLTLYPCGNACTIDGLPVRQPTRLTQGCMLCLGQSTFLRFNHPAEAKWMKSMIPAGGR  
APGPPYSPVPAESES LVNGNHTPQTATRGPSACASHSSLVSSIEKDLQEIMDSLVLEEPGAAGKKPAATSPLSPM  
ANGGRYLLSPPTSPGAMSVGSSYENTSPAFSPLSSPASSGSCASHSPSGQEPGPSVPPLVPARSSSYHLALQPPQ  
SRPSGARSESPRLSRKGGHERPPSPGLRGLLTDSPAATVLAERARRATESPRLGGQLPVVAISLSEYPASGALSQP  
TSIPGSPKFQPPVPAPRNKIGTLQDRPPSPFREPPGSESVLTTSRQVLVGRTFSDGLATRTLQPPESPRLGRRG  
LDSMRELPLSPSLRRALSPLPTRTTPDPKLNREVAESPRPRRWAHGA SPEDFSLTLGARGRRTRSPSPTLGE  
SLAPHKGSFSGRLSPAYSLGSLTGASPCQSPCVQRKLSSGDLRVPVTRERKNSITEISDNEDDLLEYHRRQRQER  
LREQEMERLERQRL ETIILNLCAEYSRADGGPEAGELPSIGEATAALALAGRRPSRGLAGASGRSSEEPGVATQRL  
WESMERSDEENLKEECSTESTQQEHEDAPSTKLQGEVLAL EEERAQVLGHVEQLKVRVKELEQQQLQESAREAM  
ERALLQGEREAERALLQKEQKAVDQLQEKLVLETGIQKERDKEAELETETKLFEDLEFQQLERESRVEEEREL  
AGQGLLRKAELLRSIAKRKERLAILDSQAGQIRAAVQESERLARDKNASLQLLQKEKEKLTVLERRYHSLTGG  
RPFPKTTSTLKEMEKLLLPAVDLEQWYQELMAGLGTGPAAASPHSSPPPLPAKASRQLQVYRSKMDGEATSPLPR  
TRSGPLPSSSGSSSSSSSSQLSVATLGRSPSPKSALLTQNGTGS LPRNLAATLQDIETKRQLALQKQGVIEEQRR  
RLAELKQKAAAEACQWDALHGAAPFPAGPSGFPLMHHSILHHLPAGRERGEEGEHAYDTLSLESSDSMETSIS  
TGGNSACSPDNMSSASGLDMGKIEEMKMLKEAHA EKNRLMESREREMELRRQALEEERRRREQVERRLQSESAR  
RQQLVEKEVKMREKQFSQARPLTRYLP IRKEDFDLKTHIESSGHGVDTC LHVVLSKVCRGYLVKMGGKIKSWKK  
RWFVFDRLKRTL SYYVDKHETKLKGVIFYQAI EEVYYDHLRSAAKKRFFRFTMVTESPNALTFCVKTHDRLYYM  
VAPSAEAMRIWMDVIVTGAEGYTQFMN

3657/6881  
**FIGURE 3369**

CCCAGGCTCCTCGGGACTCGGCGGGTCCTCCTGGGAGTCTCGGAGGGGACCGGCTGTGCAGACGCCATGGAGTTG  
GTGCTGGTCTTCCTCTGCAGCCTGCTGGCCCCCATGGTCCTGGCCAGTGCAGCTGAAAAGGAGAAGGAAATGGAC  
CCTTTTCATTATGATTACCAGACCCTGAGGATTGGGGGACTGGTGTTCGCTGTGGTCTCTCTCGGTTGGGATC  
CTCCTTATCCTAAGTCGCAGGTGCAAGTGCAGTTTCAATCAGAAGCCCCGGGCCCCAGGAGATGAGGAAGCCCAG  
GTGGAGAACCTCATCACCGCCAATGCAACAGAGCCCCAGAAAGCAGAGAACTGCAAGTGCAGCCATCAGGTGGAAG  
CCTCTGGAACCTGAGGCGGCTGCTTGAACCTTTGGATGCAAATGTCGATGCTTAAGAAAACCGGCCACTTCAGCA  
ACAGCCCTTTCCCCAGGAGAAGCCAAGAACTTGTGTGTCCCCACCCTATCCCCTCTAACACCATTCTCCACCT  
GATGATGCAACTAACACTTGCTTCCCCACTGCAGCCTGCGGTCTGCCCACCTCCCGTGATGTGTGTGTGTGTGT  
GTGTGTGTGTGACTGTGTGTGTTTGCTAACTGTGGTCTTTGTGGCTACTTGTGTGTGGATGGTATTGTGTTTGT  
AGTGAAGTGTGGACTCGCTTTCCAGGCAGGGGCTGAGCCACATGGCCATCTGCTCCTCCCTGCCCCCGTGGCCC  
TCCATCACCTTCTGCTCCTAGGAGGCTGCTTGTGTTGCCCAGACCAGCCCCCTCCCCTGATTTAGGGATGCGTAGG  
GTAAGAGCACGGGCAGTGGTCTTCAGTCGCTTGGGACCTGGGAAGGTTTGCAGCACTTTGTCAATCATTCTTCAT  
GGACTCCTTTCACTCCTTTAACAAAAACCTTGCTTCTTATCCCACCTGATCCCAGTCTGAAGGTCTCTTAGCAA  
CTGGAGATACAAAGCAAGGAGCTGGTGAGCCCAGCGTTTGACGTCAGGCAGGCTATGCCCTTCCGTGGTTAATTT  
CTTCCCAGGGGCTTCCACGAGGAGTCCCCATCTGCCCCGCCCTTCACAGAGCGCCCGGGGATTCCAGGCCCAGG  
GCTTCTACTCTGCCCCTGGGGAATGTGTCCCCTGCATATCTTCTCAGCAATAACTCCATGGGCTCTGGGACCCTA  
CCCCTTCCAACCTTCCCTGCTTCTGAGACTTCAATCTACAGCCCAGCTCATCCAGATGCAGACTACAGTCCCTGC  
AATTGGGTCTCTGGCAGGCAATAGTTGAAGGACTCCTGTTCCGTTGGGGCCAGCACACCGGGATGGATGGAGGGA  
GAGCAGAGGCCTTTGCTTCTCTGCCTACGTCCCCTTAGATGGGCAGCAGAGGCAACTCCCGCATCCTTTGCTCTG  
CCTGTGCGTGGTCAGAGCGGTGAGCGAGGTGGGTTGGAGACTCAGCAGGCTCCGTGCAGCCCTTGGGAACAGTGA  
GAGGTTGAAGGTCATAACGAGAGTGGGAACCAACCCAGATCCCGCCCCTCCTGTCTCTGTGTTCCTCGCGGAAA  
CCAACCAAACCGTGCCTGTGACCCATTGCTGTCTCTGTATCGTGATCTATCCTCAACAACAACAGAAAAAAGG  
AATAAAATATCCTTTGTTTCCTAGTGA

3658/6881  
**FIGURE 3370**

MELVLVFLCSLLAPMVLASAAEKEKEMDPFHYDYQTLRIGGLVFAVVLF SVGILLILSRRCKCSFNQKPAPGDE  
EAQVENLITANATEPQKAEN

3659/6881  
**FIGURE 3371**

ATCCTGTCTGTCCGAACCCAGACACAAGTCTTCACTCCTTCCTGCGAGCCCTGAGGAAGCCTTCTTTCCCCAGAC  
ATGGCCAAACAAGGGTCCTTCCTATGGCATGAGCCGCGAAGTGCAGTCCAAAATCGAGAAGAAGTATGACGAGGAG  
CTGGAGGAGCGGCTGGTGGAGTGGATCATAGTGCAGTGTGGCCCTGATGTGGGCCGCCAGACCGTGGGCGCTTG  
GGCTTCCAGGTCTGGCTGAAGAATGGCGTGATTCTGAGCAAGCTGGTGAACAGCCTGTACCTGTATGGCTCCAAG  
CCGGTGAAGGTGCCCCGAGAACCCACCCTCCATGGTCTTCAAGCAGATGGAGCAGGTGGCTCAGTTCCTGAAGGCG  
GCTGAGGACTATGGGGTCATCAAGACTGACATGTTCCAGACTGTTGACCTCTTTGAAGGCAAAGACATGGCAGCA  
GTGCAGAGGACCCTGATGGCTTTGGGCAGCTTGGCAGTGACCAAGAATGATGGGCACTACCGTGGAGATCCCAAC  
TGGTTTATGAAGAAAGCGCAGGAGCATAAGAGGGAATTCACAGAGAGCCAGCTGCAGGAGGGAAGCATGTCATT  
GGCCTTCAGATGGGCAGCAACAGAGGGGCCTCCAGGCCGGCATGACAGGCTACGGACGACCTCGGCAGATCATC  
AGTTAGAGCGGAGAGGGCTAGCCCTGAGCCCGGCCCTCCCCAGCTCCTTGGCTGCAGCCATCCCGCTTAGCCTG  
CCTCACCCACACCCGTGTGGTACCTTCAGCCCTGGCCAAGCTTTGAGGCTCTGTCACTGAGCAATGGTAACTGCA  
CCTGGGCAGCTCCTCCCTGTGCCCCAGCCTCAGCCCAACTTCTTACCCGAAAGCATCACTGCCTTGGCCCCCTCC  
CTCCCGGCTGCCCCCATCACCTCTACTGTCTCCTCCCTGGGCTAAGCAGGGGAGAAGCGGGCTGGGGGTAGCCTG  
GATGTGGGCCAAGTCCACTGTCTCCTTGGCGGCAAAAGCCCATTGAAGAAGAACCAGCCAGCCTGCCCCCTAT  
CTTGTCCTGGAATATTTTTGGGGTTGGAATC



3660/6881  
**FIGURE 3372**

MANKGPSYGMsREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDGRGLGFQVWLKNGVILSKLVNSLYPDGSK  
PVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTD MFQTVDLFEGKDMAAVQRTLMALGSLAVTKNDGHYRGDPN  
WFMKKAQEHKREFTESQLQEGKHVIGLQMGSNREGASQAGMTGYGRPRQIIS

3661/6881  
**FIGURE 3373**

CCTTTCCGGCGGTGATGACCTACCCACACGAGAACATGCCTCTTGCAAAGGGTCTCCTTCATCCCTCTCCAGAAA  
AGGAGAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCAATTCCTGCTTCATGGATGTGAAATGCCCAG  
GATGCTATAAAATCATCACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCT  
GCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCTTCAGGAGGAAGCAGCACTAAAAGCACTCTG  
AATCAAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAATT

3662/6881  
**FIGURE 3374**

GACATGCTCAGCAACATGCCAGGCACAGCTGCAGGCTCCAGTGGGCGCGGCATCTCCATCAGCCCCAGTGCTGGT  
CAGATGCAGATGCAGCACCCTACCAACCTGATGGCCACCCTCAGCTATGGGCACCGTCCCTTGTCCAAGCAGCTG  
AGTGCTGACAGTGCAGAGGCTCACAGCTTGAACGTGAATCGGTTCTCCCCTGCTAACTACGACCAGGCGCATTTA  
CACCCCCATCTGTTTTTCGGACCAGTCCCGGGGTTCCCCCAGCAGCTACAGCCCTTCAACAGGAGTGGGGTTCTCT  
CCAACCCAAAGCCCTGAAAGTCCCTCCACTTGACCAATTCCCCACCTTCCCTCCCAGTGCACATCAGCAGCCGCCA  
CACTATAACACGTGGGCACTACAGCAGGCCCTGCTGTCTCCACGCGGCCAGACTATAAAGACACCAGCAGGTA  
CCCCACATCCTTCAAGGACTGCTTTCTCCCGGCATTGCTCACCGGCCACTCGGACATCCGGCTGCCCCCAACA  
GAGTTTGACAGCTCATTAAAGGCAGCAGCAACAACGGCAGCAGCAGCAACAGCAGCAACAGCAAGAATAC  
CAGGAACGTTCAGGCACATGAACCAAGGGGATGCGGGGAGTCTGGCTCCCAGCCTTGGGGGACAGAGCATGACA  
GAGCGCCAGGCTTTATCTTATCAAAATGCTGACTCTTATCACCATCACACCAGCCCCCAGCATCTGCTACAAATC  
AGGGCACAAGAATGTGTCTCACAGGCTTCCTCACCCACCCCGCCCCACGGGTATGCTCACCAGCCGGCACTGATG  
CATTGAGAGCATGGAGGAGGACTGCTCGTGTGAGGGGGCCAAAGGATGGCTTCCAAGACAGTAAGAGTTCAAGT  
ACATTGACCAAAGGTTGCCATGACAGCCCTCTGCTCTTGAGTACCGGTGGACCTGGGGACCCTGAATCTTTGCTA  
GGAAGTGTGAGTCATGCCCAAGAATTGGGGATACATCCCTATGGTCATCAGCCAACTGCTGCATTGAGTAAAAAT  
AAGGTGCCCAGCAGAGAGCCTGTCATAGGGAAGTGCATGGATAGAAGTTCTCCAGGACAAGCAGTGGAGCTGCCG  
GATCACAATGGGCTCGGGTACCCAGCACGCCCCCTCCGTCCATGAGCACCACAGGCCCCGGGCCCTCCAGAGACAC  
CACACGATCCAGAACAGCGACGATGCTTATGTACAGCTGGATAACTTGCCAGGAATGAGTCTCGTGGCTGGGAAA  
GCACCTAGCTCTGCCCCGATGTCGGATGCAGTTCTCAGTCAGTCTTCGCTCATGGGCAGCCAGCAGTTTCAGGAT  
GGGGAAAATGAGGAATGTGGGGCAAGCCTGGGAGGTCATGAGCACCAGACCTGAGTGATGGCAGCCAGCATTTA  
AACTCCTCTTGCTATCCATCTACGTGTATTACAGACATTCTGCTCAGCTACAAGCACCCCGAAGTCTCCTTCAGC  
ATGGAGCAGGCAGGCGTGTTAACAAAGAAACAGAGATTTTGTGTACAGCTTGGGAATGAAAAGGTTGATTGTAAAC  
CCACAGTATCTAGCAGCGTTGTGCCAAATTGCCCTTGTGTTTTCTCTCCACCCAAAATATCACAGCTGCTTTCCTC  
ACATTTGGTTTATCCGTGTGCTGTCTTTTGGGTCTGAGAGGGTTTGGCCATGTTTGCTTGTATGACCAAGTCA  
CCAAGGAAATAAACAGGAAGGAAATCC

3663/6881

**FIGURE 3375**

MLSNMPGTAAGSSGRGISISPSAGQMOMQHRTNLMATLSYGHRPLSKQLSADSAEAHSLNVNRFSPANYPDQAH  
PHLFSDQSRGSPSSYSPSTGVGFSPQTQALKVPPLDQFFTFPPSAHQPPHYTTTALQQALLSPTPPDYTRHQQVP  
HILQGLLSPRHSLTGHS DIRLPPTTEFAQLIKRQQQQRQQQQQQQQQEQEYQELFRHMNQGDAGSLAPSLGGQSMTE  
RQALSYQNADSYHHHTSPQHLLQIRAEQCVSQASSPTPPHGYAHQPALMHSESMEEDCSCEGAKDGFQDSKSSST  
LTKGCHDSPLLLSTGGPGDPESLLGTVSHAQELGIHPYGHQPTAAFSKNKVPSPREPVIGNCMDRSSPGQAVELPD  
HNGLGYPARPSVHEHHRPRALQRHHTIQNSDDAYVQLDNLPGMSLVAGKALSSARMSDAVLSSQLMGSQQFQDG  
ENEECGASLGGHEHPDLSDGSQHLNSSCYPSTCITDILLSYKHPEVSFSMEQAGV

3664/6881  
**FIGURE 3376**

AGAGACTGCGAGAAGGAGGTCCCCACGGCCCTTCAGGATGAAGCTGCGGTGCTGACCTTGGCCGTGCTCTTCC  
TGACGGGGAGCCAGGCTCGGCATTTCTGGCAGCAAGATGAACCCCCCAGAGCCCCTGGGATCGAGTGAAGGACC  
TGGCCACTGTGTACGTGGATGTGCTCAAAGACAGCGGCAGAGACTATGTGTCCCAGTTTGAAGGCTCCGCCTTGG  
GAAAACAGCTAAACCTAAAGCTCCTTGACAACTGGGACAGCGTGACCTCCACCTTCAGCAAGCTGCGCGAACAGC  
TCGGCCCTGTGACCCAGGAGTTCTGGGATAACCTGGAAAAGGAGACAGAGGGCCTGAGGCAGGAGATGAGCAAGG  
ATCTGGAGGAGGTGAAGGCCAAGGTGCAGCCCTACCTGGACGACTTCCAGAAGAAGTGGCAGGAGGAGATGGAGC  
TCTACCGCCAGAAGGTGGAGCCGCTGCGCGCAGAGCTCCAAGAGGGCGCGCGCCAGAAGCTGCACGAGCTGCAAG  
AGAAGCTGAGCCCACTGGGCGAGGAGATGCGCGACCGCGCGCGCGCCCATGTGGACGCGCTGCGCACGCATCTGG  
CCCCCTACAGCGACGAGCTGCGCCAGCGCTTGGCCGCGCGCCTTGAGGCTCTCAAGGAGAACGGCGCGCCAGAC  
TGGCCGAGTACCACGCCAAGGCCACCGAGCATCTGAGCACGCTCAGCGAGAAGGCCAAGCCCAGCTCGAGGACC  
TCGCCCAAGGCCTGCTGCCCGTGTGGAGAGCTTCAAGGTCAGCTTCTGAGCGCTCTCGAGGAGTACACTAAGA  
AGCTCAACACCCAGTGAAGGCGCCCGCGCGCCCCCTTCCCGGTGCTCAGAATAAACGTTTCCAAAGTGGG

3665/6881  
**FIGURE 3377**

MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKLLDNWD  
SVTSTFSKLREQLG PVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDEFQKKWQEEMELYRQKVEPLRAEL  
QEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELQRQLAARLEALKENG GARLA EYHAKATEHLS  
TLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQ

3666/6881  
**FIGURE 3378**

CTGAATTGCGCGTGGTGGCCATGGCGGCCAGCGGGGCTGTGGAACCAGGGCCCCCGGGGGCTGCCGTGCCCCCGT  
CGCCCCCGCCGGCCCCCGCCGCTGCCCCTGATCACCTGTTCCGGCCCATCAGCGCCGAGGACGAGGAGCAGCAGC  
CCACCGAGATCGAGTCGCTATGCATGAACTGTTACTGCAATGGCATGACGCGCCTCCTGCTCACCAAGATTCCCT  
TCTTCAGAGAAATAATAGTGAGCTCCTTTTCTGCGAGCACTGTGGCTGGAACAACACGGAGATCCAGTCGGCAG  
GCAGGATCCAGGACCAGGGAGTGCCTACACTTTGTCTGTTCAGGGCTCTGGAGGACATGAACAGAGAAGTGGTGA  
AGACTGACTCTGCTGCCACAAGGATTCTGAGCTAGATTTTGAAATTCTGCCTTTAGCCAGAAAGGAGCTCTGA  
CCACTGTTGAAGGATTGATCACCCGTGCTATCTCTGGCCTGGAGCAGGACCAGCCTGCACGAAGGGCAAACAAAG  
ATGCTACAGCTGAAAGAATTGATGAGTTCATTGTCAAACCTGAAGGAGCTAAAGCAAGTAGCCTCCCTTTTCACTC  
TGATCATTGATGATCCCTCAGGGAACAGTTTGTGGAAAACCCACATGCTCCTCAGAAAGATGATGCCCTGGTGA  
TCACACACTACAACCGGACCCGACAGCAGGAAGAGATGCTGGGGCTTCAAGAAGAAGCACCAGCAGAGAAGCCAG  
AAGAGGAAGATCTCAGAAATGAAGTGCTCCAGTTCAGCACAACTGCCCAGAATGCAATGCCCCGCTCAGACCA  
ACATGAAGCTAGTACAAATCCCTCACTTTAAGGAGGTTATCATCATGGCTACCAACTGCGAGAACTGTGGGCATC  
GGACCAATGAGGTGAAATCTGGAGGAGCAGTAGAACCTTGGGCACCAGGATCACCTCCACATCACAGATGCCT  
CAGATATGACCAGAGACCTCCTCAAGTCTGAGACTTGCACTGTGGAAATCCCAGAGCTAGAATTTGAACTGGGAA  
TGGCAGTCCTCGGGGGCAAGTTCACCACACTGGAAGGGCTGCTGAAAGACATCCGGGAAGTGGTGACCAAAAATC  
CTTTCACACTGGGCGACAGTTCCAATCCTGGACAGACGGAGAGACTACAGGAGTTTAGCCAGAAGATGGACCAGA  
TCATCGAAGGTAACATGAAGGCCCACTTTATTATGGATGATCCAGCAGGAACAGTTACTTGCAGAATGTGTATG  
CGCCTGAAGATGATCCTGAGATGAAGGTGGAGCGTTACAAGCGCACCTTTGACCAAAATGAGGAGCTAGGGCTCA  
ATGACATGAAGACAGAGGGCTATGAGGCAGGCCTGGCTCCGCAACGGTTAGCAGTGGGTGGCTCAAGGCCAGCCT  
CCAGCGCTGCTCTTTCTGTAGGTTATTTATTAGTATTGGATGAAGCGAAGGCTGGGAGTGTCTTTCCACCAGC  
CCTTGCCCATGGTGGGGAGGACATCTGGTCTGAGTCAGAGATCTGTGCACACTTCTAAACAGCTTGATGCAA  
GTGTGAGCCTATTGTGTTACTTGACCTTATTTTGAAGTTTTGAATTGGCCTAGGAGGAAACCCAGAAATGAACC  
AGGGGTATGTCATCACTTTTTTCATATCAAGTCCTCACCTCCTCCACATAATGCTCTATCCTCTAAGGTTGGA  
ACTCTGAAGTTGGAGAAGGTGAATAAAGTTACACCTGG

3667/6881  
**FIGURE 3379**

MAASGAVEPGPPGA AVAPSPAPAPPPAPDHLFRPISA EDEEQPT EIESLCMNCYCNGMTRLLLLTKIPFFREIIV  
SSFSC EHC GWNNT EIQSAGRIQDQGVRYT LSVRALED MNREVVK TDSAATRIPELDFEIPAFSQKGALT TVEGLI  
TRAI SGL EQDQPARRANK DATAERIDEFIVKLKELKQVASPFTLIIDDP SGNSFVENPHAPQKDDALVITHYNRT  
RQQE EMLGLQEEAPAEKPEEEDLRNEVLQFSTNCPECNAPAQT NMKL VQIPHFK EVIIMATNCENC GHRTNEVKS  
GGAVEPLGTRITL HITDASDMTRDLLKSETCSVEIPELEFELGMAVLGGKFTTLEGLLKDI RELVTKNPFTLGDS  
SNPGQTERLQEF SQKMDQIIEGNMKAHFIMDDPAGNSYLQNVYAPEDDP EMKVERYKRTFDQNEELGLNDMKTEG  
YEAGLAPQR



3668/6881  
**FIGURE 3380**

TGAACTCTGGATGCTGTTAGCCTGAGACTCAGGAAGACAACCTTCTGCAGGGTCACTCCCTGGCTTCTGGAGGAAA  
GAGAAGGAGGGCAGTGCTCCAGTGGTACAGAAGTGAGACATAATGGAATCAGGCTTCACCTCCAAGGACACCTAT  
CTAAGCCATTTTAAACCTCGGGATTACCTAGAAAAATATTACAAGTTTGGTTCTAGGCACTCTGCAGAAAGCCAG  
ATTCTTAAGCACCTTCTGAAAAATCTTTCAAGATATTCTGCCTAGACGGTGTGAAGGGAGACCTGCTGATTGAC  
ATCGGCTCTGGCCCCACTATCTATCAGCTCCTCTCTGCTTGTAATCCTTTAAGGAGATCGTCGTCAGTACTGACTAC  
TCAGACCAGAACCTGCAGGAGCTGGAGAAGTGGCTGAAGAAAGAGCCAGAGGCCTTTGACTGGTCCCCAGTGGTG  
ACCTATGTGTGTGATCTTGAAGGGAACAGAGTCAAGGGTCCAGAGAAGGAGGAGAAGTTGAGACAGGCGGTCAAG  
CAGGTGCTGAAGTGTGATGTGACTCAGAGCCAGCCACTGGGGGCGTCCCCCTTACCCCGGCTGACTGCGTGCTC  
AGCACACTGTGTCTGGATGCCGCCTGCCAGACCTCCCCACCTACTGCAGGGCGCTCAGGAACCTCGGCAGCCTA  
CTGAAGCCAGGGGGCTTCCTGGTGATCATGGATGCGCTCAAGAGCAGCTACTACATGATTGGTGAGCAGAAGTTC  
TCCAGCCTCCCCCTGGGCCGGGAGGCAGTAGAGGCTGCTGTGAAAGAGGCTGGCTACACAATCGAATGGTTTGAG  
GTGATCTCGCAAAGTTATTCTTCCACCATGGCCAACAACGAAGGACTTTTCTCCCTGGTGGCGAGGAAGCTGAGC  
AGACCCCTGTGATGCCTGTGACCTCAATTAAAGCAATTCCTTTGACCTGTCA

3669/6881  
**FIGURE 3381**

MESGFTSKDTYLSHFNPRDYLEKYYYKEGSRHSAESQILKHLKLNLFKIFCLDGVKGDLLIDIGSGPTIYQLLSAC  
ESFKEIVVTDYSDQNLQELEKWLKKEPEAFDWSPVVITYVCDLEGNRVKGPEKEEKLQAVKQVLKCDVTQSQPLG  
AVPLPPADCVLSTLCLDAACPDLPITYCRALRNLGSLKPGGFLVIMDALKSSYYMIGEQQFSSLPLGREAVEAAV  
KEAGYTIEWFEVISQSYSSTMANNEGLFSLVARKLSRPL

3670/6881  
**FIGURE 3382**

CAGATGCAGTTTTCTCCGCACGTGCGCGCCTTCTCTCCTTCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATC  
AGGGGCAGCAGTACCTGTGGCAGCATTGGCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCACCCCC  
CAGCGGCTTAAGCCATGGCGCTTCTCAGGGCATTAGCAGCAGCGTTGCTGTAACCGACAAAGACACCTTCGAAT  
TAAGCACATTCTCGATTCCAGCAAAGCACCAGCAACATGACCGAAATGAGCTTCTGAGCAGCGAGGTATTGGTG  
GGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAAGAAAGCCTAGGTCTCTTAGATAACTACCTG  
GAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGGGACAAGGCTAAGGCGGGCTTCTCCGAATGGCTGGCT  
GTGGATGGGTTAGGCAGTCCCTCCAATAACAGCAAGGAGGATGCCTTCTCCGGGACAGATTGGATGTTGGAGAAA  
ATGGATTTGAAGGAGTTCGTCTTTGATGCCCTGTTGGGTATAGATAACCTGGAAACCATGCCAGATGAACTTTTG  
ACCACTTTGGATGACACTTGTGATCTCTTTGCCCCCTAGTCCAGGAGACTAATAAGGAGACCCCCAGACGGTGA

ACCCAATTGGCCATCTCCCAGGAAGTTTAACAAAACCCGACCAGGTTGCCCCCTTCACCTTCTTGCAACCTCTTC  
CCCTTTCCCCAGGGTCCCTGTCTCCACTCCAGGTCATTCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATCC  
TGAAGGAGATAGGAAGCCAGACTCCACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACACCCC  
TTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTATCTAGGGTCTCCTCAGCATAGCCCCCTCTACCAG  
GGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGTGGGTCTGCCGCCCCAAACCTTACAATCCTCC  
TGGAGAGACGATGGTAGCAGCAAAAGTAAAGGCTGAGAACTGGATAAGAAGTTGAAAAAATGGAGTAAACAA  
GACAGCAGCCACTGGGTACCGCCAGAAGAAGAGGGTGGAGCAGGAGGCTCTCACTGGTGAGTGCAAAGAGCTGGA  
AAAGAAGAACGAGGCTCTAAAAGAGAGGGCGGATTCCCTGGCCAAGGAGATCCAGTACCTGAAAGATTTGATAGA  
AGAGGTCCGCAAGACAAGGGGAAGAAAAGGGTCCCCTAGTTGACGGTAGTCAGGAGCGTCAATGTGCTTGAC  
TGGAGCCTCTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG

3671/6881  
**FIGURE 3383**

MTEMSFLSSEVLVGDLMSPFDQSGLGAEESIGLLDNYLEVAKHFKPHGFSRDKAKAGFSEWLAVDGLGSPSNNSK  
EDAFSGTDWMLEKMDLKEFVFDALLGIDNLETMPDELLTTLDDTCDLFAPLVQETNKETPRR

3672/6881  
**FIGURE 3384**

GGCAGCCGTCCGGGGCCGCCACTCTCCTCGGCCGGTCCCTGGCTCCCCGAGGCGGCCGCGGTGGATGCGGCGGG  
AGCTGGAAGCCTCAAGCAGCCGGCGCCGTCTCTGCCCCGGGGCGCCCTATGGCTTGAAGAGCCTGGCCACCCAGT  
GGCTCCACCGCCCTGATGGATCCACTGAATCTGTCTGGTATGATGATGATCTGGAGAGGCAGAACTGGAGCCGG  
CCCTTCAACGGGTGACAGCGGAAGGCGGACAGACCCCACTACAATACTATGCCACACTGCTCACCCCTGCTCATC  
GCTGTATCGTCTTCGGCAACGTGCTGGTGTGCATGGCTGTGTCCCGGAGAAGGCGCTGCAGACCACCAAC  
TACCTGATCGTCAGCCTCGCAGTGGCCGACCTCTCGTCGCCCACTGGTCATGCCCTGGGTTGTCTACCTGGAG  
GTGGTAGGTGAGTGGAAATTCAGCAGGATTCACTGTGACATCTTCGTCACTCTGGACGTCATGATGTGCAGGCG  
AGCATCCTGAACTTGTGTGCCATCAGCATCGACAGGTACACAGCTGTGGCCATGCCCATGCTGTACAATACGCGC  
TACAGCTCCAAGCGCCGGGTACCGTCATGATCTCCATCGTCTGGGTCTGTCTTACCATCTCTGCCCACTC  
CTCTTCGGACTCAATAACGCAGACCAGAACGAGTGCATCATTGCCAACC CGCCTTCGTGGTCTACTCTCCATC  
GTCTCTTCTACGTGCCCTTCATTGTACCCCTGCTGGTCTACATCAAGATCTACATTGTCTCCGAGACGCGC  
AAGCGAGTCAACACCAAACGCAGCAGCCGAGCTTTCAGGGCCACCTGAGGGCTCCACTAAAGGGCAACTGTACT  
CACCCCGAGGACATGAACTCTGCACCGTTATCATGAAGTCTAATGGGAGTTTCCAGTGAACAGGCGGAGAGTG  
GAGGCTGCCCCGGCAGCCAGGAGCTGGAGATGGAGATGCTCTCCAGCACCAGCCACCCGAGAGGACCCGGTAC  
AGCCCCATCCACCCAGCCACCAGCTGACTCTCCCGACCCGTCACCATGGTCTCCACAGCACTCCCGAC  
AGCCCCGCCAAACCAGAGAAGAATGGGCATGCCAAAGACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACC  
ATGCCCAATGGCAAAACCCGACCTCCCTCAAGACCATGAGCCGTAGGAAGCTCTCCAGCAGAAGGAGAAGAAA  
GCCACTCAGATGCTCGCCATTGTTCTCGGCGTGTTCATCATCTGCTGGCTGCCCTTCTTCATCACACATCTCTG  
AACATACTGTGACTGCAACATCCCGCTGTCTGTACAGCGCCTTCAGTGGCTGGGTATGTCAACAGCGCC  
GTGAACCCCATCATCTACACCACCTTCAACATTGAGTTCGCAAGGCCTTCCTGAAGATCTTCCACTGCTGACTC  
TGCTGCTGCCCGCACAGCAGCCTGCTTCCACCTCCCTGCCAGGCCGCCAGCCTCACCTTGCGAACCCTGA  
GCAGGAAGGCCTGGGTGGATCGGCCTCTCTTACCCCGGCAGGCCCTGCAGTGTTCGCTTGGCTCCATGCTCCT  
CACTGCCCCGACACCCCTCACTCTGCCAGGGCAGTGTAGTGAGCTGGGCATGGTACCAGCCCTGGGGCTGGGCCC  
CCCAGCTCAGGGGCAGCTCATAGAGTCCCCCTCCACCTCCAGTCCCCCTATCCTTGGCACCAAGATGCAGCC  
GCCTTCTTGACCTTCTCTGCGGCTCTAGGGTTGCTGGAGCCTGAGTCAGGGCCAGAGGCTGAGTTTTCTCTT  
TGTGGGGCTTGGCGTGGAGCAGGCGGTGGGGAGAGATGGACAGTTTACACCCTGCAAGGCCACAGGAGGCAAGC  
AAGCTCTCTTGCCGAGGAGCCAGGCAACTTCAGTCTGGGAGACCCATGTAAATACCAGACTGCAGGTTGGACCC  
CAGAGATTCCCAAGCCAAAACCTTAGCTCCCTCCCGACCCCGATGTGGACCTCTACTTTCCAGGCTAGTCCGG  
ACCCACCTCACCCGTTACAGCTCCCCAAGTGGTTTCCACATGCTCTGAGAAGAGGAGCCCTCATCTTGAAGGGC  
CCAGGAGGGTCTATGGGGAGAGGAACCTTGGCCTAGCCACCCCTGCTGCCTTCTGACGGCCCTGCAATGTATC  
CCTTCTACAGCACATGCTGGCCAGCCTGGGGCCTGGCAGGGAGGTGAGGCCCTGGAACCTCTATCTGGGCCTGGG  
CTAGGGGACATCAGAGGTTCTTTGAGGACTGCCTCTGCCCACTCTGACGCAAAACCACTTTCCTTTTCTATTCT  
CTTCTGGCCTTTCTCTCTCTCTGTTTCCCTTCCCTTCCACTGCCTCTGCCTTAGAGGAGCCACGGCTAAGAGGC  
TGCTGAAAACCATCTGGCCTGGCCTGGCCTGAGGAAAGGAGGGGAAGCTGCAGCTTGGGAGAGCCCTGG  
GGCTAGACTCTGTAACATCACTATCCATGCACCAACTAATAAACTTTGACGAGTCACCTTCCAGGACCCCTG  
GGTAAAAAAAAAAAAA

3673/6881  
**FIGURE 3385**

MDPLNLSWYDDDLERQNWSRPFNGSDGKADRPYNYATLLILLIAVIVFGNVLVCMASREKALQTTNYLIVS  
LAVADLLVATLVMPWVVYLEVVGEWKFSRIHCDIFVTLDVMMCTASILNLCAISIDRYTAVAMPMLYNTRYSSKR  
RVTVMISIVWVLSFTISCPLLFGLNNADQNECIANPAFVVYSSIVSFYVPFIVTLLVYIKIYIVLRRRRKRVNT  
KRSSRAFRAHLRAPLKGNCTHPEDMKLCTVIMKSNFSFPVNRRRVEAARRAQELEMELSSSTSPPERTRYSPIPP  
SHHQLTLPDP SHHGLHSTPDSPAKPEKNGHAKDHPKIAKIFEIQTMPNGKTRTSLKTMSRRKLSQQKEKKATQML  
AIVLGVFIIICWLPFFITHILNIHDCNIPPVLYSAFTWLGYVNSAVNP I IYTTFNIEFRKAFLKILHC

3674/6881  
**FIGURE 3386**

GATGCTGATAAAGAGAAAGATTTCGAGAAATTTCTTAAAAATGTGGATGAAATCTCCAATTTAATTCAGGAGATG

AATTCTGATGACCCAGTTGTGCAACAGAAAGCTGTCCTGGAGACAGAAAAGAGACTACTGCTTATGGAGGAAGAC  
CAGGAGGAGGATGAATGCAGGACCACCTTGAACAAGACTATGATCAGTCCTCCACAACTGCTATGAAGAGTGCA  
GAAGAAATAAACTCAGAGGCCTTCTTGGCATCTGTGGAGAAGGATGCAAAGGAACGAGCCAAGAGAAGAAGGGAA  
AACAAAGTCTTGGCGGATGCCCTAAAAGAAAAAGGGAATGAAGCATTGTGCTGAAGGCAATTATGAAACAGCTATC  
CTGCGCTACAGTGAGGGTTTGGAGAAGCTGAAGGACATGAAAGTGCTGTACACCAACCGAGCCCAGGCTTATATG  
AAACTTGAGGACTATGAGAAGGCACTGGTGGATTGTGAGTGGGCTCTCAAGTGTGATGAAAAATGCACAAAAGCA  
TATTTTCACATGGGAAAAGCCAACCTGGCCCTGAAGAACTACAGTGTGCTAGAGAGTGTATAAGAAGATCTTA  
GAAATAAACCCCAAGCTGCAAACCCAGGTGAAAGGTTACCTGAATCAAGTAGATCTTCAGGAAAAAGCAGACCTT  
CAAGAAAAGGAAGCCCACGAACTGCTGGATTGAGGAAAGAACACAGCCGTGACCACCAAGAACCTCCTGGAGACC  
CTTTCCAAGCCTGACCAGATCCCCTTGTCTATGCTGGGGGATTGAGATCCTGACTGAAATGATAAATGAGTGC  
ACAGAACAACTTTATTGAGAATGCACAATGGATTTAGTATCATCAGTGACAACGAGGTCATAAGAAGGTGTTTT  
TCCACAGCAGGAAATGATGCAGTTGAAGAAATGGTCTGTGTGTCTGTTCTCAAGCTCTGGCAAGCAGTGTGCAGC  
AGGAACGAGGAAAACAGCGTGTGCTAGTGATACACCATGACAGGGCCAGGCTGTTGGCCGCCCTCTGTCTCTCC  
AAGGTCTGGCCATCCGGCAGCAGAGCTATGCCCTGCTGCTGCATCTCGCCAGACTGAGAGCGGACGGAGCCTG  
ATCATCAACCACCTTGACCTGACCAGATTATTGGAAGCGCTGGTGTCAATTTCTTGATTTCTCGGATAAGGAGGCC  
AACACTGCTATGGGACTGTTACAGACTTGGCTCTGGAAGAAAGATTCCAAGTCTGGTTCCAGGCCAACCTTCCA  
GGTGTCTCCCTGCACTCACAGGCGTTCTGAAGACAGATCCCAAGGTAAGCAGCTCCTCGGCTCTGTGCCAGTGC  
ATTGCCATCATGGGAAACCTCAGTGCTGAGCCCACTACCCGAAGACACATGGCGGCCTGTGAGGAATTTGGGGAT  
GGCTGCTTGAGCCTCCTGGCCAGGTGTGAGGAGGATGTGGACCTGTTGAGAGAGTTATCTACACACTCCTGGGA  
CTCATGATGAACCTGTGTCTTCAGGCTCCCTTTGTCTCTGAGGTTTGGGCTGTGAGGTTGAGCAGAAGGTGCCCTG  
TCTTTACTAAACAGCCAGGATGGAGGAATCCTGACAAGAGCTGCTGGTGTCTGAGCCGGACCTTTCTTCTCTCT  
CTGAAATTTGTTGAGGAGGCCCTTGCAGCAGGAGTGGTAAAGAAAATGATGAAATTCCTGAAGACAGGAGGTGAG  
ACTGCATCACGTTATGCTATAAAGATACTAGCTATCTGCACGAATAGTTATCATGAAGCTCGGGAAGAAGTAATA  
AGACTGGATAAAAAGTTGAGCGTTATGATGAAGCTGCTCAGCTCGGAGGATGAGGTTCTGGTGGGCAACGCTGCC  
CTCTGCCCTTGGTAACCTGCATGGAGGTGCCCAACGTTGCGTCTTCCCTGCTAAAGACGGACCTTTTGGGGTCTTG  
TTAAAGCTTGCAAGCAGTGACACACAGAAGACGGCCGTGCAGGTGAACGCAGGCATTGCTCTGGGGAAGCTGTGC  
ACAGCTGAGCCCAGATTTGCTGCTCAACTGAGAAAGCTTCATGGCCTAGAAATTCCTCAACTCTACGATGAAATAC  
ATCAGTGATTCCTGAGAGAGACAGGGTTTTGTGTGCAATTTGGGGAACACACAGATGCACACCGTGTGTGTTCTTA  
TGCTAATAAAGACCTTTGATGTATCCACTTCAAAAAAAAAAAAAA

3675/6881  
**FIGURE 3387**

MNSDDPVVQQKAVLETEKRLLLMEEDQEEDCRTLNTMISPPQTAMKSAEEINSEAF LASVEKDAKERAKRRR  
ENKVLADALKEKGNEAFAEGNYETAILRYSEGLEKLDKMKVLYTNRAQAYMKLEDYEKALVDCEWALKCDEKCTK  
AYFHMGMKANLALKNYSVSRECYKKILEINPKLQTQVKGYLNQVDLQEKADLQEKEAHELDSGKNTAVTTKNLLE  
TLSPDQIPLFYAGGIEILTEMINECTEQTLFRMHNGFSIISDNEVIRRCFSTAGNDAVEEMVCVSVLKLWQAVC  
SRNEENQRVLVIIHHDRAALLSSKVLAIQQSYALLHLAQTESGRSLIINHLDLTRLLEALVSFLDFSDKE  
ANTAMGLFTDLALEERFQVWFQANLPGVLPALTGVLTDPKVSSSSALCQCIAMGNLSAEPTRRHMAACEEFG  
DGCLSLARCEEDVDLFREVIYTLLGLMMNLCLQAPFVSEVWAVEVSRRLSLLNSQDGGILTRAAGVLSRTLSS  
SLKIVEEALRAGVVKMMKFLKTGETASRYAIKILAICTNSYHEAREEVIRLDKKLSVMMKLLSSEDEVLVGNA  
ALCLGNCMEVPNVASSLLKTDLLRVLLKLAGSDTQKTAVQVNAGIALGKLCTAEPRFAAQLRKLHGLEILNSTMK  
YISDS



3676/6881  
**FIGURE 3388**

AAATATTTCAGGAAACAAAAATCACTCAAACGGAATCGAAGCCTTTTAAACAAAGAAAATGAAATACAGATGATGAT  
GATGATGATGAAGATGATGCTAAGTAAACAGAAATCAGTACTCCGCATGCGCTCCTCTCCTAAGGTACAAAGCAG  
CAAGAGGTTAGGGTGGCAAGGCTGCCTCTGGGTCCATTCTGTGGGCCACTCTCCCCAACGTTCTGACACTTCTGC  
AGTCTGATCAGTGGCGATGCTAGATTATAATTTCAAACGTGTGAAGAATAATGGTCTTGTCAATTTGCTCAATGTGG  
GGTTATGTTGCATTTTCTCAGCTCCTGGGGATGGAAATGGAGGATCCCAGAACACACAGCCCTGGCCCTTTGAT  
TCTAGGGCCTGCACAGATCTCTGGTTCAAATGCACAGGCCCTCAGAATAGAGGAACATGAAGAGAGATCTTAGAG  
CACACAGTAGAATGTGAGAGCCTGGGTGTCTGAGACCGGGAGGGGCCAGCAGTGAGGGGCAGGCTCTTCTGGTCA  
CCAGGCTGTTTCACTGGACTCAGTTCTTCATCTTGTAAATGTCGATGGCTTTGCCACACCAGGCCAAGCCCATGCCA  
TACCTTGTCAAGACTGTCAAAGTGGTTGTGGTTAGGTCAAACCTGGTTTGGTTCTGATGGTTAGGAAGAAACAGG  
TCAGCCCTCAGATCACCTGGCCCGGGACAGCTGACCCCTAGAACCCTGGCTCTGCCATTAGCTAGGACCTAAGA  
CTCTGCCCACATTTTGGTCTGTTCTCTCCATTACACATAGGTTTGTCTCAGCATGCAAGAGTTTTTCCTTTAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAGCAATGCTTTCTCTAAAATCAAAGAGGGAGTCATTTTATTCCAAGATGTTT  
TATCTTTTATGTTAAGAGATCAAAGCTTATAATTTTCTTTTTTAATTTTTGAAGGAGGGATCAACTCCAGTTTCC  
AATGCTATGTGCTATGCTGTGTATGTGCCATACATATGTATTACATGAAGACCGGCATGGCCAAGTTCTGCTG  
GAGGAGCACTCAAGTGTGACGAGCAGGGCCACTGGACCCTGCAGGGCTGTGGTGTATATAGTGCAGCTTTGGAGG  
TGGAACCTCTATTTTCACTTTTCTATGGAGCCTTCCGAGTCCAGGTTTCACTTGAGGCTGTCTGTCTGGATG  
GCGGTTTTAGACCTCCATTAACATCCCTACCCAGCATTCTGTACTTCGGGGGCCTTCTCTCTGTTATAAACT  
TTTTACCAAGTGAAACATCGATACCACCTTTGTTTCCATTCTCACTGGTGTAAATACTGAGTACTAAGTGAAT  
TTTGACTTTGCATTCTGTGGAATACTTGTGTTCAATAAAAAATTG

3677/6881  
**FIGURE 3389**

MCVCAIHMYSHEDRHGQVLEEHSVTSRATGPCRAVVYIVQLWRWNSIFTLFYGAFRVPGFHLRLSVWMAVFRP  
PLTSLPSILYFGGLLSCYKTFYQVKHRYHLCFHSWCKY

3678/6881  
**FIGURE 3390**

CCAGGAACGAGATGCGGGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCTAGGAGGCCGAGCTCTGTGCTTC  
GAACTCCAGTGGTCAGACCTGCTCATATCTCAGCATTCTTCAGGACCGACCTATCCCAGAATGGTGTGGAGTGC  
AGCACATACACTTGTACCCGAGCCACCATTCTGGCTCCAAGGCTGCATCTCTCCACTGGACTAGCGAGAGGGTTG  
TCAGTGTCTTCTGCTCTGGGTCTGCTTCCGGCTGCTTATTTGAATCCTTGCTCTGCGATGGACTATTCCCTGGCTG  
CAGCCCTCACTCTTCATGGTCACATGGGGCCTTGGACAAGTTGTTACTGACTATGTTTCATGGGGATGCCTTGCAGA  
AAGCTGCCAAGGCAGGGCTTTTGGCACTTTAGCTTTAACCTTTGCTGGGCTTTGCTATTTCAACTATCACGATG  
TGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCTTTTGACTTCATACTTTGAAGAATTGATGTA  
TGCCTCTTTGCTCTGCTTTGTCTATGCCATTAAGCTCACAATAAGGAAGAAATAACAGATAAGTCCATTGGTGGA  
CAGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAATTTAATCTTTGAGGAAAAGGTTTGAGAGGAATTATATC  
TAAGTTGTGAGACTGAGTTCTATATTCTGGTGAGTTAATGGGGTTGCCTCCAGCTTCTTATAAGACTCACAGTA  
TAACTAAACATGATATATCAGCTTTTGCCTTTCAATTTATCAATCTCTTAAAGAGAATCCAACCTTTATTACGATT  
AGTATATGATCAAACCTCCATATTTGCCTTGGGAATAATGGACAAAGGGAAATACTCTTAATTCATGAATAAAAA  
CTTTGCAGAAAATTAGACAGTGTAAATTTTCGAAAACCTCCCTCTCTAGACAGTAGATAACCACTACTGATGGT  
TACATATACTAGGGAAATTTTAAATTTAGGAAATGCTGATAGCTCATATTATAAATTTCTAAATCCTAGGAAGAA  
ACGCTTGGAGTGCCTTCTGAATATACAGAAGTTCCATTTAAGGGCAAGTTTCCCCGTAGATGTATCAAAATACTAC  
CAACTGTAAATTGAGATTTAATTTCCCAAATGTATTCTACTTGTTCTAAAACAATCTGTCCACAAATATAAACTA  
TAAGTAATAAATTGTTATTTTCGCACAATGGGAATCTCTAATGTGAAAATGTATTCTATGAAAATAATTTTTTAA  
ATAAAATGTTATATAATAAAAGTGTCTTCTATGCTTTT

3679/6881  
**FIGURE 3391**

MAVLWRLSAVCGALGGRALLLRTPVVRPAHISAFLODRPIPEWCGVQHIHLSPSHHSGSKAASLHWTSERVVSVL  
LLGLLPAAYLNPCSAMDYSLAAATLHGHWGLGQVVTDYVHGDALQKAAKAGLLALSALTFAGLCYFNYHVDVGIC  
KAVAMLWKL

[illegible]

3681/6881

**FIGURE 3393**

MGKTANSPGSGARPDVRSFNRWKKKSHRQNKKKQLRKQLKKPEWQVERESISRLMQNYEKINVNEITRFSDFP  
LSKKTILKGLQEAQYRLVTEIQKQTIGLALQGKDVLGAAKTGSGKTLAFLVPVLEALYRLQWTSTDGLGVLIISPT  
RELAYQTFEVLRKVGKNHDFSAGLIIGGKDLKHEAERINNINILVCTPGRLLQHMDETVSFHATDLQMLVLDEAD  
RILDMGFADTMNAVIENTLPKKRQTLLFSATQTKSVKDLARLSLKNPEYVWHEKAKYSTPATLEQNYIVCELQOK  
ISVLYSFLRSHLKKKSIVFFSSCKEVQYLYRVFCRLRPGVSILALHGRQQQMRMEVYNEFVRKRAAVLFATDIA  
ARGLDFFAVNWWLQFDCPEDANTYIHRAGRTARYKEDGEALLILLPSEKAMVQQLLQKKVPVKEIKINPEKLIDV  
QKKLESILAQDQDLKERAQRCFVSIVRSVYLMKDKEVFDVSKLPIPEYALSLGLAVAPRVRFLOKMQKQPTKELV  
RSQADKVIEPRAPSLTNDEVEEFRAVFNEKMSILQGGKRLEGTEHRQDNDTGNEEQEEEEDEEEMEELAKAK  
GSQAPSLPNTSEAQKIKEVPTQFLDRDEEEEDADFLKVRHNVFGLDLKDEKTLQKKEPSKSSIKKKMTKVAEAK  
KVMKRNFKVNKKITFTDEGELVQQWPQMOKSAIKDAEEDDDTGGINLHKAKERLQEEDKFDKEEYRKKIKAKHRE  
KRLKEREAREANKRQAKAKDEEEAFLDWSDDDDDDDDGFDPSLDPDPKYRSSDSDSDMENKISDTKKKQGM  
KKRSNSEVEDVGPTSHNRKKARWDTLEPLDTGLSLAEDEELVLHLLRSQS

3682/6881  
**FIGURE 3394**

ATTCAGTAAACCACTGGGAGTCCGGCAGCATGAAGGCAGCGGCCCTCCCATGACTGCAGGGAAGTTCATGGTGG  
TCGGCGGCGGCATCGCGGGCGTCACTTGTGCGGAGCAGTTGGCTACTCACTTTCCATCAGAAGATATTCTCTGG  
TAACAGCTTCTCCTGTTATGAAAGCAGTTACAAATTTCAAGCAGATTTCTAAATATTGGAAGAATTTGATGTTG  
AAGAACAATCAAGTACCATGTTAGAAAAACGCTTTCCCAACATCAAGGTTATAGAATCTGGCGTAAAGCAACTGA  
AGAGTGAAGAACACTGCATTGTAACAGAAGATGGCAATCAGCATGTATATAAGAACTCTGTGTGCTGGAGCTAA  
ACCAAAGTTGATATGTGAAGGAAATCCTTATGTATTAGGAATCCGTGATACAGACAGTGTCTCAGGAATTTCAGAA  
ACAGCTTACTAAAGCTAAAAGAATAATGATCTTAGGGAACGGTGGTATCGCACTTGAGTTAGTGTATGAAATTGA  
AGGCTGTGAAGTGATTTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTCTTCGATGCAGGAGCAGCTGAATT  
CTTGACTTCAAAGCTCATTGCTGAAAAATCAGAGGCTAAAATTGCATATAAAAGAACCAGATATACAACCTGAAGG  
AAGGAAAAAGGAAGCTAGAAGCAAATCTAAATCAGATAATGTAGGCAGTGCCTTGGGACCAGATTGGCATGAAGG  
CTTGAATCTTAAAGGAACAAAAGAGTTTCTCATAAGATTACCTTGAAGCTATGTGTGAAGTAAAGAAAATCTA  
CCTTCAGGATGAGTTTGAATTTTGAAGAAAAAGTCCTTCACTTTTCCAAGAGACCATACGTCAGTTACAACATA  
TACAGAGATGTGGCCTGTCTATGTGGAATTGACCAATGAAAAGATATATGGCTGCGATTTCATTGTCAGTGTCTAC  
AGGAGTTACACCGAATATAGAACCTTTTCTCCATGGTAACAGTTTTTGATCTAGGAGAAGATGGTGGCCTGAAAGT  
GGATGATCATATGCACACATCCCTTCTGATATCTATGCTGCCGGTGACATCTGTACTACATCCTGGCAGCTGAG  
CCCAGTCTGGCAGCAGATGAGGCTGTGGACCCAGGCTAGACAGATGGGATGGTATGCAGCAAAGTGCATGGCTGC  
AGCGAGTTCAGGAGACTCTATTGACATGGATTTACGCTTTGAACTGTTTGCTCATGTGACAAAATTTTTTAACTA  
TAAGGTTGTACTGCTGGGAAAATACAATGCACAGGGCTTAGGTTTCAATCATGAATTAATGCTGAGATGTACCAA  
AGGACAAGAATACATCAAAGTCGTATGCAAAATGGACGAATGATGGGAGCTTCTTAATTGGTGAAACTGATTT  
AGAAGAAACATTTGAAAACCTAATCTTAAACCAAATGAATCTTTCATCATATGGAGAAGATCTGCTAGATCCAAA  
TATTGATATAGAAGATTATTTGACTAAAAATGGAATTTCTTCAAGAATCATATAAAGTTCCAAATGACACCAGA  
AAAATCACAAGTCAATAAAATGAATGACTGTATTGAGTTAATGATGACCACACTGAAAATTACAGAAGTGATAAT  
GATATTAGTGGAATAATATAAAAACATAAATCTAAGTTTGAAATCAGTTCAAAGTTTATTTATAGATATATCTT  
TCCAATACAACACTGACCACTTGGATAAAAAATCTTAAGTTATTTATTTCTGTGTTTTAAACATAAATATGTTTAC  
TTGTGATTTAGCTTTGGAGCAAATTTAGGTAAGTTATCTATTTAGCCAAATGTACTCTAGTAGATTAGAACCATT  
CTTTGTGAAATGTCAAATATGGCTGTGGTTTCAGGAACTTTAAAATCGGTTGTATTTTACTTTAAATAGAGATG  
TAGCAATATCTCGTTTGCTAATATTTATATTGATGACTTACTCCTTTTTTGTGAAATTGTACTTCTGGTTTTATA  
ACCTGAAATCATCTACAAGCTTGTCCAACCTAGCCACGGGTGCAATGCAGCCAGGACAGCTTTGAATGCAGC  
CCAACACAAATTTGTAAACTTCTTAAACTTGAGATTTTTCTTGCAATTTTTTTTTTAAGCTTATCAGCTATCGT  
CAGTGTTAGCATGTTTTATGTGCGGCCCAAGACAATCTTCTTCCAGTGTGGCTCAGGGAAGCCAAAAGATTGGA  
CATCCCTGATCTACATATTTAACTTAAAGTATCACTCAGTGAGCCTCTGTCTAGTGTAATATTGCTTTCAAAAAGA  
TAGTTATGTCAAAAGAAAAAATATAGCTAAGTATATAAAGGCATAAAAACTTAAAGACAATTATATGGACTTATT  
CTCAAATATTTTACATTTTTTGTAAACTTTCTTAAACATGAGATTTTTCTTGCAATTTTTTTTTTAAGCTCATC  
AGCTGTCATCAGTGTTAGCATATTTTATGTGAGGCCCAAGACAATTTCTTCTCAATGTGGCTCAGGGAAGCCAA  
AAGATTGGACATCCCTGATCTACATATTTAACTTAAAGTATCACTCATTGAAATTTCTTTTAAAAACTATTGTCTA  
ACTACAAAAATAGTGGCATATACATGCATAAACCATCTTTAATTAGAAAATTTAGTAACATTCATGTCAGGCATC  
ATCGATTTTTCTTTTTCTTAGCTCCTGTATTCTTAGAACCAGATTGCTGAAGCATGTTTGCAGCCTTCTTCTGGAA  
GTTGCCGTAATTTTTTTTCTCCATCTTTTTTATCACCTTGTTTCAAGATGACAAGTTTGAGACGATTTCAGCCTAC

3683/6881  
**FIGURE 3395**

GGCACGAGGCTGCCGCGCTGTCCGCGTTATCTCCTCCCGGTGAGAACGAACCGCAGTGTCCACCGGCGAGGAGCC  
AGCCCTGTCCCGGTCAGAGAAAGACGACGAGGATACCTGGGAGCGGGCGGCGCCGGGCTGGGCGCGCCGGTGC  
GGGCTGGCGACTCIGCTCCTCCGCTTGCTGTCTCTGGAAGTGGGTGCCAGCGCTGAGGGGCTTCCAGCGGA  
CAGGGACCCCTTCCCCGGCTCCCTGCCACCCTGCCGGGAGGGCGGAAGATGCCGGTGAAGAAGAAGAGAAA  
ATCCCTGGGGTGGCAGCAGCAGTAGCGGAAGACGGAGGCCTCAAAAAGTGTAATAATCTCCAGCTATTGCAGATC  
CCAACCCCTGCTAGACTAATAAGTGGAGAGGAACATTTTTCAAGCAAGAAGTGCCTGGCTTGGTTTTATGAATA  
TGCAGTCTGTATGAAGTTGTAGGGCCAGAAGGAATGGAATAATTTTTGTGAAGACATTGGTGTGAACCTGAAAA  
TATTATTATGTTAGTTTTAGCGTGGAAATTGGAGGCTGAAAGCATGGGATTTTTTACCAAGGAAGAATGGTTAAA  
GGGAATGACTTCATTACAGTGTGACTGCACAGAAAAGTTACAAAACAAATTTGACTTTTTGCGCTCACAGTTGAA  
TGATATTTTCGTCAATTAAGAATATCTACAGATATGCCTTTGATTTTGCAAGGGATAAAGATCAGAGAAGCCTTGA  
TATTGATACTGCTAAATCTATGTTAGCTCTTCTGCTTGGGAGGACATGGCCACTGTTTTCAGTATTTTACCAGTA  
CCTGGAGCAATCAAAGTATCGTGTTATGAACAAAGATCAATGGTACAATGTATTAGAATTCAGCAGAACAGTCCA  
TGCTGATCTTAGTAATATGATGAAGATGGTGCTTGGCCTGTTCTTCTTGATGAATTTGTTGAGTGGCAAAAAGT  
CCGTCAGACATCATAGCAAGAAGTATGTGAAGAAAATGCAACCTTTCAATTCACAGTGTATACAAGCTAATGT  
GATGAGGGGGAAAAAATCCAACGGGTGCATTTTCATTCATATGAAAGACTTCTCATAGTACTTTTTTTTCTTT  
TTTTAAAGGAGGTTTTTCTTGTTACATGTGATGGGCATTGAGCCACACCTCTTCTAGACTGAATATTGAAGTTT  
TTGTTTTGAGTTATGTTTATAACATTTATTTTCAACAATAAAGATTTCAGATTGTGAAAAAAAAAAAAAAAAA  
AAAAAAAAA



3684/6881  
**FIGURE 3396**

MPVKKRKSPGVAAVAEDGGLKKCKISSYCRSQPPARLISGEEHFSSKKCLAWFYEYAGPDEVVGPEGMEKFCE  
DIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEKLQNKFDLRSQLNDISSFKNIYRYAFDFAR  
DKDQRSLDIDTAKSMLALLLGRTWPLFSVIFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDGAWPVLLD  
EFVEWQKVRQTS

3685/6881  
**FIGURE 3397**

CCCAGCCCCGCCCCGCGCCCCGGCTGCGCACGCGACGCCCCCTCCAGGCCCCGCTCCTGCGCCCTATTTGGTCA  
TTCGGGGGGCAAGCGGCGGGAGGGGAAACGTGCGCGGCCGAAGGGGAAGCGGAGCCGGCGCGGCTGCGCAGAGG  
AGCCGCTCTCGCCCGCCACCTCGGCTGGGAGCCCCACGAGGCTGCCGCATCCTGCCCTCGGAACAATGGGACTC  
GGCGCGGAGGTGCTTGGGCCGCGCTGCTCCTGGGGACGCTGCAGGTGCTAGCGCTGCTGGGGGCCGCCATGAA  
AGCGCAGCCATGGCGGAGACTCTCCAACATGTGCCTTCTGACCATACAAATGAACTTCCAACAGTACTGTGAAA  
CCACCAACTTCAGTTGCCTCAGACTCCAGTAATACAACGGTCACCACCATGAAACCTACAGCGGCATCTAATACA  
ACAACACCAGGGATGGTCTCAACAAATATGACTTCTACCACCTTAAAGTCTACACCCAAAACAACAGTGTTC  
CAGAACACATCTCAGATATCAACATCCACAATGACCGTAACCCACAATAGTTCAGTGACATCTGCTGCTTCATCA  
GTAACAATCACAACACTATGCATTCTGAAGCAAAGAAAGGATCAAAATTTGATACTGGGAGCTTTGTTGGTGGT  
ATTGTATTAACGCTGGGAGTTTTATCTATTCTTTACATTGGATGCAAAATGTATTACTCAAGAAGAGGCATTCCG  
TATCGAACCATAGATGAACATGATGCCATCATTTAAGGAAATCCATGGACCAAGGATGGAATACAGATTGATGCT  
GCCCTATCAATTAATTTTGGTTTTATTAATAGTTTAAACAATATTCTCTTTTGAAGATAGTATAAACAGGCCAT  
GCATATAATGTACAGTGTATTACGTAAATATGTAAAGATTCTCAAGGTAACAAGGTTTGGGTTTTGAATAAA  
CATCTGGATCCTTATAGACCGTTCATACAATGGTTTTAGCAAGTTCATAGTAAGACAAACAAGTCTATCTTTTT  
TTTTTTGGCTGGGGTGGGGCATTGGTCACATATGACCAGTAATTGAAAGACGTCATCACTGAAAGACAGAATGC  
CATCTGGGCATACAAATAAGAAGTTTGTACAGCACTCAGGATTTTGGGTATCTTTTGTAGCTCACATAAAGAAC  
TTCAGTGCTTTTCAGAGCTGGATATATCTTAATTACTAATGCCACACAGAAATTATACAATCAAAGTATCTGA  
AGCATAATTTAAGAAAAACATCAACATTTTGTGCTTTAACTGTAGTAGTTGGTCTAGAAACAAAATACTCCA  
AGAAAAAGAAATTTTCAAATAAAACCCAAAATAATAGCTTTGCTTAGCCCTGTTAGGGATCCATTGGAGCATT  
AGGAGCACATATTTTTATTAACCTCTTTTGAAGCTTTCAATGTTGATGTAATTTTGTCTCTGTGTAATTTAGGT  
AACTGCAGTGTTTAAACATAATAATGTTTTAAAGACTTAGTTGTCAGTATTAATAATCCTGGCATTATAGGGAA  
AAAACCTCCTAGAAGTTAGATTATTTGCTACTGTGAGAATATTGTCACCACCTGGAAGTTACTTTAGTTTCAATTA  
TTTTAATTTATATTTTGTGAATATTTTAAAGACTGTAGAGCTGCTTTCAATATCTAGAAATTTTAAATTGAGTG  
TAAACACACCTAATTTAAGAAAAAGAACCGCTTGTATGATTTTCAAAGAACATTTAGAATTTCTATAGAGTCAA  
AACATATAGCGTAATGCTGTGTTTTATTAAGCCAGGGATTGTGGGACTTCCCCAGGCAACTAAACCTGCAGGATGA  
AAATGCTATATTTTCTTTCATGCACTGTGATATTACTCAGATTTGGGGAATGACATTTTATACTAAAACAAA  
CACCAAAATATTTTAGAATAAAATCTTAGAAAGTTTTGAGAGGAATTTTLAGAGAGGACATTTCTCCTTCCTGA  
TTTGGATATTTCCCTCAAATCCCTCCTCTTACTCCATGCTGAAGGAGAAGTACTCTCAGATGCATTATGTTAATGG  
AGAGAAAAAGCACAGTATTGTAGAGACACCAATATTAGCTAATGTATTTTGGAGTGTTTTCCATTTTACAGTTTA  
TATTCCAGCACTCAAACCTCAGGGTCAAGTTTTAACAAAAGAGGTATGTAGTCACAGTAAATACTAAGATGGCAT  
TTCTATCTCAGAGGGCCAAAGTGAATCACACCAGTTTCTGAAGGTCCTAAAAATAGCTCAGATGTCCTAATGAAC  
ATGCACCTACATTTAATAGGAGTACAATAAACTGTTGTCAGCTTTTGTGTTTACAGAGAACGCTAGATATTAAGA  
ATTTTGAAATGGATCATTTCTACTTGCTGTGCATTTTAAACCAATAATCTGATGAATATAGAAAAAATGATCCAA  
AATATGGATATGATTGGATGTATGTAACACATACATGGAGTATGGAGGAAATTTCTGAAAAATACATTTAGATT  
AGTTTAGTTTGAAGGAGAGGTGGGCTGATGGCTGAGTTGTATGTTACTAAGTGGCCCTGACTGGTTGTGCAACC  
ATTGCTTCATTTCTTTGCAAAATGTAGTTAAGATATACTTTATTCTAATGAAGGCCTTTTAAATTTGTCCACTGC  
ATTCTTGGTATTTCACTACTTCAAGTCAGTCAGAACTTCGTAGACCGACCTGAAGTTTCTTTTGAATACCTGTT  
TCTTTAGCACTTTGAAGATAGAAAAACCACTTTTAAAGTACTAAGTCATCATTTGCCTTGAAAGTTTCTCTGCA  
TTGGGTTTGAAGTAGTTTAGTTATGCTTTTTCTCTGTATGTAAGTAGTATAATTTGTTACTTTCAAATACCCGT  
ACTTTGAATGTAGGTTTTTTTGTGTTGTTATCTATAAAAATTGAGGGAAATGGTTATGCAAAAAAATATTTTGC  
TTTGGACCATATTTCTTAAGCATAAAAAATGCTCAGTTTTGCTTGCAATTCCTTGAGAATGTATTATCTGAAG  
ATCAAAACAAACAATCCAGATGTATAAGTACTAGGCAGAAGCCAATTTTAAATTTCTTTGAATAATCCATGAAA  
GGAATAATTCAAATACAGATAAACAGAGTTGGCAGTATATTATAGTGATAATTTGTATTTTCAAAAAAAG  
TTAACTCTTCTTTTCTTTTATATAATGACCAGCTTTTGGTATTTTATTGTTACCAAGTTCTATTTTAGAAT  
AAAATTGTTCTCTCTCTAAAA

3686/6881  
**FIGURE 3398**

CACACAGCCTACTTTCCAAGCGGAGCCATGTTTGGTAAACGGCAATGCGGCTGCAACGGCGGAAGAAAACAGCCCA  
AAGATGAGAGTGATTGCGGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTGGTGGCAACA  
TTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACT  
GCACTCTCTAAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAGAAGAATGAAGTGGAC  
CTGGTTGTTCACTCCTTGAAGGACCTGCCCCTGTGCTTCCTCCTGGCTTCACCATCGGAGCCATCTGCAAGCGG  
GAAAACCTCATGATGCTGTTGTCTTTCACCCAAATTTGTTGGGAAGACCCTAGAAAACCTGCCAGAGAAGAGT  
GTGGTGGGAACCAAGCTCCCTGCGAAGAGCAGCCAGCTGCAGAGAAAGTTCCCGCATCTGGAGTTCAGGACGGGG  
GAAACCTCAACACCCGGCTTCGGAAGCTGGACTATTATCTCGAGTTCAGTGCCATCATCCTGGCAACAGCTGGCC  
TGCAGCGCATGGGCTGGCACAACCGGGTGGGGCAGATCCTGCACCCTGAGGAATGCATGTATGCTGTGGGCCAGG  
GGGCCTTGGGCGTGGGAAGTGCAGGCCAAGGACCAGGACATCTGGATCTGGTGGGTGTGCTGCACGATCCCGAGA  
CTCTGCTTCGCTGCATCGCTGAAAGGGCCTTCCTGAGGCACCTGGAAGGAAGCTGCAGTGTGCCAGTAGCCGTGC  
ATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGAGGAGTCTGGAGTCTAGACGGCTCAGATAGCATAACAAG  
AGACCATGCAGGCTACCATCCATGTCCCTGCCCAGCATGAAGATGGCCCTGAGGATGACCCACAGTTGGTAGGCA  
TCACTGCTCGTAAACATTCCACGAGGGCCCCAGTTGGCTGCCCAGAACTTGGGCATCAGCCTGGCCAACCTTGTTC  
TGAGCAAAGGAGCCAAAAACATCCTGGATGTTGCACGGCAGCTTAACGATGCCATTAACTGGTTTGTGGGGCAC  
AGATGCCTGGGTTGCTGCTGTCCAGTGCCTACATCCCGGGCCTCAGTGCCCCATTCTCACTGCTATCTGGGGAGT  
GATTACCCCGGGAGACTGAACTGCAGGGTTCAAGCCTTCCAGGGATTTCCTCACTTGGGGCCTTGATGACTGC  
CTTGCTCCTCAGTATGTGGGGCTTCATCTCTTTAGAGAAGTCCAAGCAACAGCCTTTGAATGTAACCAATCCT  
ACTAATAAACCAAGTTCTGAAGGT

3687/6881  
**FIGURE 3399**

ACAGCAGTTACACTGCGGCGGGCGTCTGTTCTAGTGTGTTGAGCCGTCGTGCTTCACCGGTCTACCTCGCTAGCAT  
GTCGGGCCGCGGCAAGACTGGCGGCAAGGCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCCGGCCTCCAGTT  
CCCAGTGGGCGGTGTACACCGGTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGCCGGCGCGCCAGTGTA  
CCTGGCGGCAGTGCTGGAGTACCTACCGGTGAGATCCTGGAGCTGGCGGGCAATGCGGCCCGCGACAACAAGAA  
GACGCGAATCATCCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGTGGGCGGCGT  
GACGATCGCCAGGGAGGCGTCTGCCCAACATCCAGGCCGTGCTGCTGCCAAGAAGACCAGCGCCACCGTGCG  
GCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCCTCCCAGGAGTACTAAGAGGGCCCGCGCCGCGGCCG  
GCCGCCAGGCCTCCCCATGCCACCACAAAGCCCTTTTAAAGGGCCACCACCGCCCTCATGGAAAGAGCTGAGCCG  
CTTCAGACTGCGGGGCAAGCGGGCCGCGGCTCCCTTCCCTCCCTCCCTCGCCCGCCTTCGCCCGCCGGCCTC  
GAGTCCCCCGCCGCCCCCGCTCCCGTCCCGCACCGCCTGCCGCGTCGGCCTCGGGCCCTGCCCTGTCCGCCGTCC  
GCCCTCCGGTAGGGTTTCGGGCTTCCGGATGCGGCTTGGGCGCTCTTCGGGGACCTCCGTGGCGCGGAAGACCCG  
AGCCTGCCGGGGGGAGGCCGGCGGCGCCGACCTGCCCGCCTCGGCGTTCGTGACTCAGCCGCCCCATCCGAGT  
CGCTAAGGGGCTGCGGGGAGGCCGAGCACCTTCTGGAAGACTTGGCCTTCCGCTCTGACGCAGGGCCGAGGTGG  
GCAGTCCAGGCCGAGAGGCCGGCGGCCCTGAAGGTGAGTGAGGCCCTCGGCAGCTGCAGCCGGGGTGTCTGGTAC  
CCCCCGGCGTGGTGCTTAGCCAGAATTTTCAGACGCGGCGGCTGGCCGGGAGGCTTTGGTGGGAGAGACGCGA  
TCCCCAATTCGGTCTGGCGCCCTTCTGCGGCCGGGACCCAGGCCTTTCACATCAGCTCTCCCTCCATCTTCAT  
TCATAGGTCTGCGCTGGGGCCGGGACGAACCACTTGGTAACAGGCACATCTTCCTCCGAGTGACTGCCTCCTAG  
GAGGACATTTAGGGGAGGGCAGAGGCCTGCAGTTTGGCTTCACGGCTGGCTATGTGGACAGCAAGAGTCGTTTTTC  
GCGGAAGCCGACTGGCAGCCAGGCCTGTCGGGCCCCCGACGCCGCCCATTTCCCTCCAGCAAACCTCAACTCG  
GCAATCCAAGCACCTAGATACCAGCACAAAGTCGGTTAATCCCTGTCTGGACTGAGCCTCCGTTGGCTTCTGAAC  
GGAATTCGAGCTAACCTTCCACGACTAGAACCTTAGGCATTGGGGAGTTTTAGATGGACTAATTTATTAA  
GGATTGTTTTTTTTT

3688/6881

**FIGURE 3400**

CGGAATTGCCCATGCCGCTGCTGATCAATTTGATCGTCTCGCTGCTGGGATTTGTGGCCACAGTCACCCTCATCC  
CGGCCTTCCGGGGCCACTTCATTGCTGCGCGCCTCTGTGGTCAGGACCTCAACAAAACCAGCCGACAGCAGATCC  
CAGAATCCCAGGGAGTGATCAGCGGTGCTGTTTTCCCTTATCATCCTCTTCTGCTTCATCCCTTTCCCCTTCCTGA  
ACTGCTTTGTGAAGGAGCAGTGTAAGGCATTCCCCCACCATGAATTTGTGGCCCTGATAGTGCCCTCCTTGCCA  
TCTGCTGCATGATCTTCTGGGCTTTGCGGATGATGTACTGAATCTGCGCTGGCGCCATAAGCTGCTGCTACATA  
CAGCTGCCTCACTACCTCTCCTCATGGTATATTTACCAACTTTGGCAACACGACCATTGTGGTGCCCAAGCCTT  
TCCGCCCCGATACTTGGCCTGCATCTGGACTTGGGAATCCTGTACTATGTCTACATGGGGCTGCTGCAGTGTTCTG  
TACCAATGCCATCAATATCCTAGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCATTTCTGCTTCCAT  
CATTGTCTTCAACCTGGTAGAGTTGGAAGGTGATTGTCGGGATGATCATGTCTTTTCCCTCTACTTCATGATACC  
CTTTTTTTTACCACCTTTGGGATTGCTCTACCACAACCTGGTACCCATCACGGGTGTTTGTGGGAGATACCTTCTG  
TTACTTTGCTGGCATGACCTTTGCCGTGGTGGGCATCTTGGGACACTTCAGCAAGACCATGCTACTATTCTTCAT  
GCCCCAGGTGTTCAACTTCCTCTACTCACTGCCTCAGCTCCTGCATATCATCCCCTGCCCTCGCCACCGCATAACC  
CAGACTCAATATCAAGACAGGCAAACCTGGAGATGAGCTATTCCAAGTTCAAGACCAAGAGCCTCTCTTTCTTGGG  
CACCTTTATTTTAAAGGTGGCAGAGAGCCTCCAGCTGGTGACAGTACACCAGAGTGAGACTGAAGATGGTGAATT  
CACTGAATGTAACAACATGACCCTCATCAACTTGCTACTTAAAGTCCTTGGGCCCATACATGAGAGAAACCTCAC  
ATTGCTCCTGCTGCTGCTGCAGATCCTGGGCAGTGCCATCACCTTCTCCATTGATATCAGCTCGTTCGACTCTT  
CTATGATGTCTGAGTCCCTTGATCATTGTCTTTACCTCACAGTCTCTAGGATTCCTGACTCAGGCTGACCTCTC  
TCTCTGGTCCCAGACTGCCTCCTTGCCCAGGCCTCTCTCACTCTTCATACTCCTCCAGATTTTGTCTCAGCATT  
TTCCTTCTCTGTGATCATTGGCATCCTGGGCGTTTCTTGCCCTCTGCTGACTACTGATTGGATTTTACCTATGG  
CTTTCTGCAACTTGCTACTCTCTCCCTCTCCATCCCATCTTTGCAGCCTCATAGGGTGGGATACAGCAGCTTTT  
TTGCAGTTATCCACACTCACATTTAGAGTCTGACTCTCAAGGAACCACTGGTTTTTGGGATAGAACTTGGGCC  
AGGGCTAGGAACACAGGCTCCACGGTGACATGTCAATTTGATTGTAAATTAAGTGTTCTGATTAGTAAGAATAAG  
CAGGGGGCCACATGCTCTCAATGGAGACAATAAAGTGTTGTCTTTTTCTT

3689/6881  
**FIGURE 3401**

AGGCTCTTGCAGCCAATGCCGGAACAGGATTTGCTGTTGCTGAGCCTCAAATCGCAATGTTTTGTGGGAAGTTAA  
ATATGCATGTGAACATTAGACTGGGAAATGGGAACCTGATCCAACAGGCACCAAGAGCTGCTTTGAAACAAAAG  
AAGAAGTTCTTCAGTACTGTGAGGAGATGTATCCAGAGCTACAGATCACAATGTGATGGAGGCAAACCAGCGGG  
TTAGTATTGACAACCTGGTGCCGGAGGGACAAAAAGCAATGCAAGAGTCGCTTTGTTACACCTTTCAAGTGTCTCG  
TGGGTGAATTTGTAAGTGATGTCCTGCTAGTTCCAGAAAAGTGCCAGTTTTTCCACAAAGAGCGGATGGAGGTGT  
GTGAGAATCACCAGCACTGGCACACGGTAGTCAAAGAGGCATGTCTGACTCAGGGAATGACCTTATATAGCTACG  
GCATGTGCTCCCATGTGGGGTAGACCAGTTCCATGGCACTGAATATGTGTGCTGCCCTCAGACAAAGATTATTG  
GATCTGTGTCAAAGAAGAGGAAGAGGAAGATGAAGAGGAAGAGGAAGAGGAAGATGAAGAGGAAGACTATGATG  
TTTATAAAAAGTGAATTTCTACTGAAGCAGATCTGGAAGACTTCACAGAAGCAGCTGTGGATGAGGAATGATGAGG  
ATGAGGAAGAAGGGGAGGAAGTGGTGGAGGACCGAGATTACTACTATGACACCTTCAAAGGAGATGACTACAATG  
AGGAGAATCCTACTGAACCCGGCAGCGACGGCACCATGTGAGACAAGGAAATTACTCATGATGTCAAAGCTGTCT  
GCTCCCAGGAGGCGATGACGGGGCCCTGCCGGGCGGTGATGCCCTGTTGGTACTTCGACCTCTCCAAGGGAAAGT  
GCGTGCGCTTTATATATGGTGGCTGCCGGCGGCAACAGGAACAATTTTGTAGTCTGAGGATTATTGTATGGCTGTGT  
GTAAAGCGATGATTCTCCAACTCTCTGCCAACCAATGATGTTGATGTGATTTTCGAGACCTCTGCAGATGATA  
ATGAGCATGCTCGCTTCCAGAAGGCTAAGGAGCAGCTGGAGATTCGGCACCGCAACCGAATGGACAGGGTAAAGA  
AGGAATGGGAAGAGGCAGAGCTTCAAGCTAAGAACCTCCCCAAGCAGAGAGGCAGACTCTGATTCAGCACTTCC  
AAGCCATGGTTAAAGCTTTAGAGAAGGAAGCAGCCAGTGAGAAGCAGCAGCTGGTGGAGACCCACCTGGCCCGAG  
TGGAAGCTATGCTGAATGACCGCCGTGGATGGCTCTGGAGAATACTGGCTGCCCTGCAGTCTGACCCGCCAC  
GGCCTCATCGCATTCTCCAGGCCTTACGGCGTTATGTCCGTGCTGAGAACAAGATCGCTTACATACCATCCGTC  
ATTACCAGCATGTGTTGGCTGTTGACCCAGAAAAGGCGGCCAGATGAAATCCCAGGTGATGACACATCTCCACG  
TGATTGAAGAAAGGAGGAACCAAAGCCTCTCTGCTCTACAAAGTACCTTATGTAGCCCAAGAAATTCAGAGG  
AAATTGATGAGCTCCTTCAGGAGCAGCGTGCAGATATGGACCAGTTCAGTGCCTCAATCTCAGAGACCCCTGTGG  
ACGTCCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCACCGTTCCACCCCTTCCACCCCTTCCAGCCCTACCTG  
AGAACGAAGACACTCAGCCGGAGTTGTACCACCCAATGAAAAAAGGATCTGGAGTGGGAGAGCAGGATGGGGGAC  
TGATCGGTGCCGAAGAGAAAGTGATTAACAGTAAGAATAAAGTGGATGAAAACATGGTCATTGACGAGACTCTGG  
ATGTTAAGGAAATGATTTTCAATGCCGAGAGAGTTGGAGGCCCTCGAGGAAGAGCGGGAATCCGTGGGCCCACTGC  
GGGAGGACTTCAGTCTGAGTAGCAGTGCTCTCATTGGCCTGCTGGTCATCGCAGTGGCCATTGCCACGGTCATCG  
TCATCAGCCTGGTGATGCTGAGGAAGAGGCAGTATGGCACCATCAGCCACGGGATCGTGGAGGTTGATCCAATGC  
TCACCCCAAGAGCGTCACCTGAACAAGATGCAGAACCATGGCTATGAGAACCCACCTACAAATACCTGGAGC  
AGATGCAGATTTAGGTGGCAGGGAGCGCGGCAGCCCTGGCGGAGGGATGCAGGTGGGCCGGAAGATCCCACGATT  
CCGATCGACTGCCAAGCAGCAGCCGCTGCCAGGGGCTGCGTCTGACATCCTGACCTCCTGGACTGTAGGACTATA  
TAAAGTACTACTGTAGAAGTGAATTTCCATTCTTTTAAATGGGTGAAAAATGGTAATATAACAATATATGATAT  
ATAAACCTTAAATGAAAAAATGATCTATTGCAGATATTTGATGTAGTTTTCTTTTTTAAATTAATCAGAAACCC  
CACTTCCATTGTATTGTCTGACACATGCTCTCAATATATAATAAATGGGAAATGTCGATTTTTCAATAATAGACTT  
ATATGCAGGCTGTCGTTCCGGTTATGTTGTGTAAGTCAACTCTTCAGCCTCATTCACTGTCTGGCTTTTATTTA  
AAGAAAAAAGGCAGTATTCCCTTTTTTAAATGAGCTTTCAGGAAGTTGCTGAGAAATGGGGTGGAAATAGGGAAC  
TGTAATGGCCACTGAAGCACGTGAGAGACCCTCGCAAAATGATGTGAAAGGACCAGTTTCTTGAAGTCCAGTGTT  
TCCACGGCTGGATACCTGTGTGTCTCCATAAAAGTCCTGTACCAAGGACGTTAAAGGCATTTTATTCAGCGTC  
TTCTAGAGAGCTTAGTGATACAGATGAGGGTGTCCGCTGCTGCTTTCCCTTCGGAATCCAGTGCTTCCACAGAGA  
TTAGCCTGTAGCTTATATTTGACATTCTTCACTGTCTGTTGTTTACCTACCGTAGCTTTTACCGTTCACTTCCC  
CTTCCAATAATGTCAGATGTGACAGGCTCCTCCTCTCTGGAATTTCTCCAAAGGCACTGACCTCGGCCCTACT  
TTGTCCCCTCACCTCCACCCCTCCTGTACCCGGCTTGTGACATTCACTCAGAGAAGACCACACCAAGGAGGCG  
GCCGCTGGCCCAGGAGAGAAACACGGGGAGGTTTTGTTTGTGTGAAAGGAAAGTAGTCCAGGCTGTCCCTGAAACTG  
AGTCTGTGGACACTGTGGAAGCTTTGAACAATTGTGTTTTCGTCACAGGAGTCTTTGTAATGCTTGTACAGTTG  
ATGTCGATGCTCACTGCTTCTGCTTTTTCTTTCTTTTTTATTTTAAATCTGAAGGTTCTGGTAACCTGTGGTGTAT  
TTTTATTTTCTGTGACTGTTTTGTTTTGTTTTTCTTTTTCTCCCTTTGACCTATTCTGTCTCTACC  
CACTATGCACAGATTAAACTTCACCTACAACTCCTTAATATGATCTGTGGAGAATGTACACAGTTTAAACACAT  
CAATAAATACTTTAACTTCCA

3690/6881  
**FIGURE 3402**

MAATGTAAAAATGRLLLLLVGLTAPALALAGYIEALANAGTGFAVAEPQIAMFCGKLNMHVNIQTGKWEPT  
GTKSCFETKEEVLQYQCQEMYPELQITNVMEANQRVSIDNWCRRDKKQCKSRFVTPFKCLVGEFVSDVLLVPEKCQ  
FFHKERMEVCENHQHWHTVVKEACLTQGMTLYSYGMLLPCGVDQFHGTEYVCCPQTKIIGSVSKEEEEEDEEE  
EEDEEEDYDVYKSEFPTEADLEDFTEAAVDEDEDEEEGEEVVEDRDYYYDTFKGDDYNEENPTEPGSDGTMSDK  
EITHDVKAVCSQEAMTGPCRAVMRWYFDLSKGKCVRFYGGCGGNRNNEFESEDYCMVCKAMIPPTPLPTNDVD  
VYFETSADDNEHARFQKAKEQLEIRHRNRMDRVKKEWEEAELOAKNLPKAERQTLIQHFQAMVKALEKEAASEKQ  
QLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRLHTIRHYQHVLAVDPEKAAQM  
KSQVMTHLHVIEERRNQSLSLLYKVPYVAQEIQEEIDELLQEQRADMDQFTASISPTVDVRSSESEEEIPPFH  
PFHPPALPENEDTQPELYHPMKKSGVGEQDGGGLIGAEKVINSKNKVDENMVIDETLDVKEMIFNAERVGGLE  
EERESVGPLREDFSLSSSALIGLLVIAVAIATVIVISLVMLRKRQYGTISHGIVEVDPMLTPEERHLNKMQNHGY  
ENPTYKYLEQMQI

3691/6881  
**FIGURE 3403**

CTTTCACAAAAGGTGAAATGAGCTCTTTGTAGTGTTTCCCGCCCAGGCTGCATTTTAGAATCACAGAGGAGGGTG  
GCCCCGAGGCAGCCGGGATGACAGCTCTCCCCAGGAATCCTGCTGCCTGCTGAGAAACATGGTCAGCAAGTCCCGC  
TGGAAGCTCCTGGCCATGTTGGCTCTGGTCCTGGTCGTCATGGTGTGGTATTCCATCTCCCGGGAAGACAGGTAC  
ATCGAGCTTTTTTATTTTCCCATCCAGAGAAGAAGGAGCCGTGCCTCCAGGGTGAGGCAGAGAGCAAGGCCTCT  
AAGCTCTTTGGCAACTACTCCCGGGATCAGCCCATCTTCTGCGGCTTGAGGATTATTTCTGGGTCAAGACGCCA  
TCTGCTTACGAGCTGCCCTATGGGACCAAGGGGAGTGAGGATCTGCTCCTCCGGGTGCTAGCCATCACCAGCTCC  
TCCATCCCCAAGAACATCCAGAGATTGAACAATGCCCCAGTGGCTGGCTATGAGGGTGACGTGGGCTCCAAGACC  
ACCATGCGTCTCTTCTACCCCTGAATCTGCCCACTTCGACCCCAAAGTAGAAAACAACCCAGACACACTCCTCGTC  
CTGGTAGCTTTCAAGGCAATGGACTTCCACTGGATTGAGACCATCCTGAGTGATAAGAAGCGGGTGCGAAAGGGT  
TTCTGGAAACAGCCTCCCCCTCATCTGGGATGTCAATCCTAAACAGATTTCGGATTCTCAACCCCTTCTTCATGGAG  
ATTGCAGCTGACAACTGCTGAGCCTGCCAATGCAACAGCCACGGAAGATTAAGCAGGATGCGGAATTTGGTCAG  
AGCCGTTTCATGTGAGAGCTCAGCAGAATGGCAGCTGAACCCCTGGGAGAGCACTGCCTGTTCTGAGAAAGGCCTGC  
AATTGTGTCTTCACGATGCTTTTCCAAGACAGCCAAGGCAGGTATAATTTTCTCAGCAAGAAAGAGGAACCTCG  
GAGGTGTGCACCGCCTGGCTGGCCACCCAGGTATTGGCAAAAGTACTGTTGGGCTGCTGGCCCCGGCCCCGCCC  
GCCGTCCCTGGAGCACTCACGATGCGGTCCGGCGGCGGCGTGCTCCGGATGAAGCACTTGATCTGGCCCTTCTCG  
CCGTGGAGGGCGTGCTGGGTCTGGGTGCTGGAGATGATGGGGGTCCTGTTGAGAAACAGCGTCCCATTAGGCAC  
CCGGGAAGGGCACGTCCCTGCTGGCGCCCTCTTGGGTGGGTTCAGAAGTGTATTCTTAATCCAAGCATTACAGCA  
AACATTTGCCGAAGGCCTGTATGTGCAAGGTAAAGTGCAAGGTAGAGGACTCAGAGATAAATTAGGCATTACAGTC  
ATAAACCTCTCAAGGGATCATGAGCGAATGCTTCTAAGTCAGAACCCCCAGAAGATACAAATAACTGTAATAAAA  
GGTGGTGAGTGTTAGTACCACAGGAGCGGTGCAGATAAAGTGCTAACCGACTTC



3692/6881

**FIGURE 3404**

GGAGAAAGGAGAGAAAGGAAAGCGCGAGGAGCCGCCGCCACCACCAGCGCAGCAGTCCTGGAGCTGTGAGGAGAT  
TCGGGCCGTCACCCCTGCCTCCCCTGCGTCCCGCCACCGGCCGCTTCTGTCTCGGACCCATTCCAACAATCTCGT  
AAAA**CAT**GGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTCACCCGAGGATATTAAAAAGGCATATC  
GGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGAAGAAGCAGAGAGAAAATTCAAGCAAG  
TAGCGGAGGCATATGAAGTGCTGTCGGATGCTAAGAAACAGGACATCTATGACAAATATGGCAAAGAAGGATTAA  
ATGGTGGAGGAGGAGGTGGAAGTCATTTTGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCCAGATGATG  
TCTTCAGGGAATTTTTTGGTGAAGGGACCCATTTTCATTTGACTTCTTTGAAGACCCTTTTGAGGACTTCTTTG  
GGAATCGAAGGGGTCCCCGAGGAAGCAGAAGCCGAGGGACGGGGTCGTTTTTCTCCGTGTTCACTGGATTTCCTGT  
CTTTTAGAAGTGGATTTTCTTCTTTTGATACAGGATTTACTTCATTTGGGTCAGTGGTACAGGGGGCCTCACTT  
CATTCTCTTCCACGTCATTTGGTGGTAGTGGCATGGGCAACTTCAAATAGATATCAACTTCAACTAAAATGGTTA  
ATGGCAGAAAAATCACTACAAAGAGAATTGTGAGAACGGTCAAGAAAGAGTAGAAGTTGAAGAAGATGGCCAGT  
TAAAGTCCTTAACAATAAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAG**TA**ATTCAACGCACGCACCTTAAC  
AGAAATGTTAACTATAACAAGCACCATTTGAGGATTAACAGGAACATTTTTTTGAAGATTTCAAACGAACCTCGA  
CTTTCAGTATAATTGTACCTAAAGTATTTATAAACAGCTCATCGGAGCCTCTATTTGTCATAGACTTTTGAGTTG  
ATTGTTGGGACCACATAATAGGACCATTTTTTTTTTGTCTTTAAAATTGTTGTAATCTCTGTATGCACTTTGCT  
TTTTTATTAAACGTACTCCAAGGTGAGTCTTGACTCTTTAGTGTAGGACAAGATTGTACACTAACACCAGCATGG  
ACCTGCTTTTCATTGTGCTGAAATGTGAGCCACGTAGTGTGGCCTGCTGTGAAGTTAACATTGCCAGGACGAT  
TCTTCTACAGAAATAATTTCAAATTTTTTCAGCATTTAGTAGTGAAGATATTAATACATTAAATGGAATACATT  
TCTGGTTTAATATAAATTAAGGATGTTTTCTAGTTGTGCATGAATGCTGGCAACTTAGTAAGTTTGACAATTGT  
TTAAATATGTAATGTTAAGCTTAGGTTAAAAAAGTAAAGCTGGTAAACTGGGTCTTTGTCATTTGCTTTAAAAA  
AAAAAAAAGAAAATAAATGCGAATGTGTTGGTGCATT

3693/6881  
**FIGURE 3405**

MVDYYEVLGVQRHASPEDIKKAYRKLALKWHPDKNPENKEEAERKFQVAEAYEVLSDAKKQDIYDKYGKEGLNG  
GGGGGSHFDSPFEGFTFRNPDDVFREFFGGGRDPFSFDFFEDPFEDFFGNRRGPRGSRSGTGSFFSVFSGFPSPF  
RSGFSSFDTGFTSFGSLGHGGLTSFSSTSFGGSGMGNFKRISTSTKMVNGRKITTKRIVENGQERVEVEEDGQLK  
SLTINGKEQLLRDKN

3694/6881  
**FIGURE 3406**

CAGCAGTCCTGGAGCTGTGAGGAGATTGGGGCCGTCACCCTGCCTCCCCCTGCGTCCCGCCACCGGCCGCTTCTGT  
CCTCGGACCCATTCCAACAATCTCGTAAAACATGGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTC  
ACCCGAGGATATTAAAAAGGCATATCGGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGA  
AGAAGCAGAGAGGGACATCTATGACAAATATGGCAAAGAAGGATTAAATGGTGGAGGAGGAGGTGGAAGTCATT  
TGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCCAGATGATGTCTTCAGGGAATTTTTTGGTGAAGGGA  
CCCATTTTCATTTGACTTCTTTGAAGACCCTTTTGAGGACTTCTTTGGGAATCGAAGGGGTCCCCGAGGAAGCAG  
AAGCCGAGGGACGGGGTCGTTTTTCTCCGTGTTTCAGTGGATTTCGTCCTTTAGAGTGGATTTCTTCTTTGA  
TACAGGATTTACTTCATTTGGGTCACTAGGTACAGGGGGCCTCACTTCATTCTCTTCCACGTCATTTGGTGGTAG  
TGGCATGGGCACTTCAAATAGATATCAACTTCAACTAAAATGGTTAATGGCAGAGAAGATGGCCAGTTAAAGTC  
CTTAACAATAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAGTAATTCAACGCACGC

3695/6881  
**FIGURE 3407**

CTTGTAAGATGGCGGCGCCAGGTGGAGCGCTCGGGCCCTGGATCCGGGGAAACGGCCAAGGTTGCGGGAGTC  
TCTTCACTCTCGTCTCAAAGCCATTTGTGCCGCTGCCGCTGCCTCTACGGCCATAAATGCCAGAGATTAGCGG  
AGAAGCTCCGAGCCAGAAACGGGAACAAGACACAAAGAAGGAGCCGGTGTCCACAAACGCTGTTACGCGGAGAG  
TGCAAGAAATAGTGGGTTACACGGCAGCTGCAGCGAGTCCACCCCAACGTGCTTGCTAAGGCACTGACCCGAG  
GAATTCTCCACCAGGACAAGAACCTTGTGGTCATCAATAAGCCCTACGGTCTCCCTGTGCATGGTGGCCCTGGGG  
TCCAGCTCTGCATCACTGATGTACTACCTATCCTGGCAAAGATGCTTCATGGCCACAAGGCAGAGCCCTTGATC  
TGTGCCACCGGCTGGACAAGGAAACCACAGGTGTAATGGTGTGGCTTGGGACAAGGACATGGCACATCAAGTCC  
AAGAGTTGTTTAGAACCCGTCAGGTGGTGAAGAAGTACTGGGCCATCACTGTGCATGTCCCATGCCCTCAGCAG  
GAGTCGTGGACATCCCCATTGTGGAGAAGGAGGCGCAAGGCCAGCAGCAACACCACAAGATGACATTGTCCCGA  
GCTACCGCATGGACGATGGGAAAATGGTGAAAGTGGCGCGCAGCCGGAATGCGCAAGTTGCTGTAAGTCACTAGTCC  
AGGTGCTCAGCAGCACTCTCTCTCCGCCCTCGTGGAGCTCCAGCCCATCACTGGAATAAAACATCAGCTTCGAG  
TTCATTGTCTTTTGGATTGGATTGTCCAATCCTTGGTGATCACAAGTACTCAGACTGGAATAGGTTGGCCCCC  
AGAAGCTGTCTGTGGGCACCTGAAGAAGCTGGGGCTAGAACAGTGAAGGCCGCTACATCCCCCTTCACCTGC  
ACGCCCCGCGAGCTGATCCTGCCTGCCCTGGGGTCCGGGAAGGAGGAACTCAACTTGGTCTGCAAACCTTCCTCGT  
TCTTTGTGATTCCCTGCACCGCCTGCGTTTAGAGATGCCAAATGAGGATCAAATGAGAACAATGAAGCCAAGT  
GTCTGGGAGCACAGTGAAGACCATGGGAGCACCTGGGAGCACAGTGAAGACCCCTGAGAGCATCCTGG  
CACCTGGGAGCGCAGGTTGGCCCCCTGAAGTGTCTTTGTTTACAGGACTCTGCTAACTTCTCACTTGGAAACAGAC  
TGCGTAAGAGCCAGGTGGGATAAGGTAAAGCAACTCAGCTGTACAGGGCTTTTAATGGAGAACAAAGTCTATTT  
ACTGATAGTTTGGCTGCACTGTGGAAGCCTGCTGGAAGTCTCCCTGCCGTGGGCTCTCATTGCCAATATGGAA  
CAGAGCCCAGGGCCAGGCAGACTGGGGCAGTACTGGAAAAGGAAACTAAAGGTCAGAATCCGGGATCAGGAAC  
TGTTTTTATCCAGCAGTGAAGCTCTTGAGCTCTTAGGAAGGTTCCCGTGGTTGGAAAGAACATAATGGTTAACAA  
ATATCACAGCATCCAGGGATTGCCAGCTATAGTGTGGGTGCCCTACTGAACTCTGATTAGGGAACCTGTATAAG  
GGTATTGAGTGTGAGGTTGAGGTGGGACATTTGCTGAGCAAGGAGAACCGATGTGAATGGCAGGCAGATAACATG  
CACACATGAAGCTGGCTGGGTGTAAGGCAGTAGCGGGGAGCGCATGCTGTCTAACAGCTGTTAGCTCCAGCTGG  
TTGTTGCCATGTGGGAATGGATTTTCTCATTCTTCAGAGAAGCTGGAAACCTAGATATTTATGTGAAACCTCCC  
AGTGTATTGCCAACTAAATCAAATTTTTAAAGATGCTTAGGCACCTAAGCAAATAATACTTAGAGGTTGAATTTG  
GTCTACAGGCTAGCAGTTTGCAGTCTATGTTTAAATGAATGGTATAGAAGTTTGGGGAAAGGTGCCATCTTGAAA  
TTCTGGATCAGTGGTTGGCATTTCGCTGCGTGTAGTATGTATCCTTTCTAGGCTTGGAGATGGCTTTGGTTGGT  
CCGTGAATGTAGTTATGAGAGTGCTGCCATTAATAAATCAAAAATC

3696/6881  
**FIGURE 3408**

MAAPRWSASGPWIRNGQGCGSLFTLVSKPFCAAAAASTAINAQRLAEKLRAQKREQDTKKEPVSTNAVQRRVQE  
IVRFTRQLQRVHPNVLAKALTRGILHQDKNLVVINKPYGLPVHGGPGVQLCITDVLPIAKMLHGHKAEPLHLCH  
RLDKETTGVMLAWDKDMAHQVQELFTRQVVKKYWAITVHVPMPSAGVVDIPIVEKEAQGGQQHHKMTLSPSYR  
MDDGKMVKVRRSRNAQVAVTQYQVLSSTLSSALVELQPIGTGIKHQLRVHLSFGLDCPILGDHKYSOWNRLAPQKL  
SVGTLLKKLGLEQSKARYIPLHLHARQLILPALGSGKEELNLVCKLPRFFVHSLHRLRLEMPNEDQNENNEAKCLG  
AQ

3697/6881  
**FIGURE 3409**

CAGATAGAAACCAAATTCTATGAGGAAGTTCACGATCTTGAAAGGAATATGCTGTTCTCTATCAGCCTCTATTTG  
ATAAGCGATTTGAGATTATTAATGAAATTTATGAACCCACAGAAGAACAATGTGAATGGTAACCAGATAAAGAAG  
ATGAGATTTGAGAGGAGTTGAAAGAAAAGGCCAAGATCGAAGATGAGAAAAAGGATGAAGAAAAAGAAGACCCCA  
AAGAAATCCTGAATTTTGGTTAACTGTTTCTAAGAATGTTGACTTGTTTCAGTGATATGTTCAACAACATGATG  
AACCTATTCTGAAACACTTGAAAGATACTAAAGTGAAGCTCTCAGATGCTGACCAGCCTATGAATTTTGCTTAG  
AATTTCACTTTGAACCCAATGAATATTTTACAAATGAAATGCTGTCAAAGACATACAGGATGAGGTCAGAACCAG  
ATGATTCTGATCCCTTTTCTTTTGATGGACCAGAAATTATGGGTTGCACAGGGTGCCAGATAGATTGGAAAAAAG  
GAAAGAATGTCACTTTGAAAACCATTAAGAAGAAGCAGAAACACAAGGGAAGTGGGACAGTTCATACTGTGACTG  
AGAGTGGAGATCTGGATGATGATGCTGAAATCCTTGACAGACTTCAAAAATAGTCACTTTTACGTGAGCGTAT  
AATCCAAGAGCAGTGTCACTTTTACTGGAGAAGCTATTGAAGTTGATGATGATGTTTATGATGAAGAAGGTGA  
AGAAGCGGATGAGGTAATGTTTACCAAATGAGCAAATAATTCTCTGTGTTTAAACACATTGAGAAGCAAATTGAAT  
GACTTATGTATTCCCTTTGCTATAATCATTCTGCAATTTGGGTTAAAAACATTTTGGAAAATATGATTTTAGAATT  
CTACAGCCAAACAGTGTATGTGTAAAGTTTCAATAAATAAA

3698/6881

**FIGURE 3410**

MVQQHDEPILKHLKDTKVKLSADQPMNFVLEFHFEPNEYFTNEMLSITYMRSEPDDSDPFSFDGPEIMGCTGC  
QIDWKKGKNVTLKTIKKKQKHKGSGTVHTVTESGDLDDAEILAQTSK

3699/6881  
**FIGURE 3411**

GGGGCCAGTCGTTCCGCCGAAAGCATTGTCTCCACCTCATCATAACAACAATTAATTTCTCTGGGGCCTGAG  
GAGGGCAGAATTTCAACCTTCGGTGTGCTTGGGAGTGGCGATTGTGATTTACACGACAAAATGCCGAGGTGCTCG  
GTGGAGTCATGGCAGTGCCCTTTGTGGAAGACTGGGACTTGGTGCAAACCCTGGGAGAAGGTGCCTATGGAGAAG  
TTCAACTTGCTGTGAATAGAGTAAGTGAAGAAGCAGTCGCAGTGAAGATTGTAGATATGAAGCGTGCCGTAGACT  
GTCCAGAAAATATTAAGAAAGAGATCTGTATCAATAAAATGCTAAATCATGAAAATGTAGTAAAATTTCTATGGTC  
ACAGGAGAGAAGGCAATATCCAATATTTATTTCTGGAGTACTGTAGTGGAGGAGAGCTTTTGTACAGAATAGAGC  
CAGACATAGGCATGCCTGAACCAGATGCTCAGAGATTCTTCCATCAACTCATGGCAGGGGTGGTTTATCTGCATG  
GTATTGGAATAACTCACAGGGATATTAAACCAGAAAATCTTCTGTTGGATGAAAGGGATAACCTCAAAATCTCAG  
ACTTTGGCTTGGCAACAGTATTTCCGGTATAATAATCGTGAGCGTTTGTGGAACAAGATGTGTGGTACTTTACCAT  
ATGTTGCTCCAGAATTTCTGAAGAGAAGAGAATTTTCATGCAGAAACAGTTGATGTTTGGTCTGTGGAATAGTAC  
TTACTGCAATGCTCGCTGGAGAATTGCCATGGGACCAACCCAGTGACAGCTGTCAGGAGTATTCTGACTGGAAG  
AAAAAAAACATACCTCAACCCTTGGAAAAAATCGATTCTGCTCCTCTAGCTCTGCTGCATAAAATCTTAGTTG  
AGAATCCATCAGCAAGAATTACCATTCCAGACATCAAAAAAGATAGATGGTACAACAAACCCCTCAAGAAAGGGG  
CAAAAAGGCCCGAGTCACCTCAGGTGGTGTGTCAGAGTCTCCAGTGGATTTTCTAAGCACATTCAATCCAATT  
TGGACTTCTCTCCAGTAAACAGTGCTTCTAGTGAAGAAAATGTGAAGTACTCCAGTTCTCAGCCAGAACCCCGCA  
CAGGTCTTTCCTTATGGGATACCAGCCCTCATAATTGATAAATGGTACAAGGGATCAGCTTTTCCCAGCCCA  
CATGTCCTGATCATATGCTTTTGAATAGTCAGTTACTTGGCACCCAGGATCCTCACAGAACCCCTGGCAGCGGT  
TGGTCAAAAGAAATGACACGATTCTTTACCAAATTGGATGCAGACAAATCTTATCAATGCCTGAAAGAGACTTGTG  
AGAAGTTGGGCTATCAATGGAAGAAAAGTTGTATGAATCAGGTACTATATCAACAACCTGATAGGAGAAACAATA  
AACTCATTTTCAAAGTGAATTTGTTAGAAATGGATGATAAAATATTGGTTGACTTCCGGCTTTCTAAGGGTGATG  
GATTGGAGTTCAAGAGACACTTCTGAAGATTAAAGGGAAGCTGATTGATATTGTGAGCAGCCAGAAGGTTTGGC  
TTCCTGCCACATGATCGGACCATCGGCTCTGGGGAATCCTGGTGAATATAGTGCTGCTATGTTGACATTATTCTT  
CCTAGAGAAGATTATCCTGTCTGCAAACCTGCAAATAGTAGTTCTGAAAGTGTTCACTTCCCTGTTTATCCAAAC  
ATCTTCCAATTTATTTTGTGTTGTTCCGCATACAAATAATACCTATATCTTAATTGTAAGCAAAACCTTGGGGAAA  
GGATGAATAGAATTCATTTGATTATTTCTTCATGTGTGTTTAGTATCTGAATTTGAAACTCATCTGGTGGAAACC  
AAGTTTCAGGGGACATGAGTTTCCAGCTTTTATACACACGTATCTCATTTTTATCAAAACATTTTGTTTAATTC  
AAAAAGTACATATTTCTTCCATGTTGATTTAATTCTAAGATGAACCAATAAAGACATAATTTCTTGCAAAAAAAA  
AAAAAAAAAAAAAAAA



3700/6881  
**FIGURE 3412**

MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEAVAVKIVDMKRAVDCPENIKKEICINKMLNHENVVKFYGHRR  
EGNIQYLFLEYCSGGELFDRIEPDIGMPEPDAQRFFHQLMAGVVYLHGIGITHRDIKPENLLDERDNLKISDFG  
LATVFRYNNRERLLNKMCGILPYVAPELLKRREFHAEPVDVWSCGIVLTAMLAGELPWDQPSDSCQEYSDWKEKK  
TYLNPWKKIDSAPLALLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTSGGVSESPSGFSKHIQSNLDF  
SPVNSASSEENVKYSSSQPEPRIGLSLWDITSPSYIDKLVQGISFSQPTCPDHMLLNSQLLGTGSSQNPWQRLVK  
RMTRFFTKLDADKSYQCLKETCEKLGQWKKSCMNQVTISTDRRNNKLIFKVNLEMDDKILVDFRLSKGDGLE  
FKRHFLKIKGKLIDIVSSQKVWLPAT

3701/6881

**FIGURE 3413**

CTGGCCTGCGGTGGGCTAGGGGCAGGGCCGGAGCCGCGGCGGCGGAGCTGTGGATCCTTCATGATGAGAGATTG  
GGGACACTTCTCTCTCTCTGTGTGTAGTTGATAGTTTGGTGGTGAAGAGATGGCTGACAGTGTCAAAACCTTTCTC  
CAGGACCTTGCCAGAGGAATCAAAGACTCCATCTGGGGTATTTGTACCATCTCAAAGCTAGATGCTCGAATCCAG  
CAAAAGAGAGAGGAGCAGCGTCGAAGAAGGGCAAGTAGTGTCTTGGCACAGAGAAGAGCCCAGAGTATAGAGCGG  
AAGCAAGAGAGTGAGCCACGTATTGTTAGTAGAATTTTCCAGTGTTGTGCTTGGAATGGTGGAGTGTTCTGGTTC  
AGTCTCCTCTTGTGTTTTATCGAGTATTTATTCCTGTGCTTCAGTCGGTAACAGCCCGAATTATCGGTGACCCATCA  
CTACATGGAGATGTTTGGTCGTGGCTGGAATTCCTCCACAGTCAATTTTCAGTGCTCTTTGGGTGCTCCCCTTG  
TTTGTGCTTAGCAAAGTGGTGAATGCCATTGGTTTTAGGATATAGCTGACCTGGCATTGAGGTATCAGGGAGG  
AAGCCTCACCCATTCCCTAGTGTGAGCAAAATAATTGCTGACATGCTCTTCAACCTTTTGTGTCAGGCTCTTTTC  
CTCATTGAGGAATGTTTGTGAGTCTCTTTCCCATCCATCTTGTGCGTCAGCTGGTTAGTCTCCTGCATATGTCC  
CTTCTCTACTCACTGTACTGCTTTGAATATCGTTGGTTCAATAAAGGAATTGAAATGCACCAGCGGTTGTCTAAC  
ATAGAAAGGAATTGGCCTTACTACTTTGGGTTTGGTTTGGCCTTGGCTTTTCTCACAGCAATGCAGTCTCATAT  
ATTATCAGTGGCTGCCTTTTCTCTATCCTCTTTCTTTTATTCAATTATCAGCGCCAATGAAGCAAAGACCCTGGCA  
AAGCATATCTCTTCCAGTTGCGCCTCTTCTCCTTGGTGGTCTTCTTAAGCAACAGACTCTCCACAAGACAGTCT  
ACCTGCAGTCGGCCCTGAGCAGCTCTACTTCTGCAGAGAAGTTCCTTCACCGCATCCGTCGCCTGCCAAACTGA  
AGGCTACTGCAGGTCACTGAGTTGCCTGCCATCCAAAGGGGATGGGCGGGATTGGAAGAAGCTGTGGCAGCTCTT  
TTCCCTGTTACCTCCCGCTGCCAGGGAAGGCAGGACCCGCTCTGCCAAGGGCCCTCTGCGTATTCCCTTCTCT  
CTGAGGAATTGAAATTTTGTCTCTGGTGCACGTAAGGCAGAATGTTCCCTGACACCAGTGTGTGGATTTTTAAC  
ATCACCGTGAGTCTGAAAGGACCACAGGTTTTTCTGCAGCTATTTTCTAGCATTTGCCAGTCCCTGTGCCTGGAC  
TGATTGGAACACTTTGTTTTTCTCCCTGTGCCATTTACCCTTCCACCTTTCCATCCTGCCTTCTACCACCCTTGG  
ATGAATGGATTTTGTAAATCTAGCTGTTGTATTTTGTGAATTTGTTAATTTGTTGTTTTTCTGTGAAACACATA  
CATTGGATATGGGAGGTAAAGGAGTGTCCAGTTGCTCCTGGTCACTCCCTTTATAGCCATTACTGTCTTGTTC  
TTGTAACTCAGGTTAGGTTTTTGGTCTCTCTTGCTCCACTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG  
CCTGAAGAGATGAGATAGGAGGAAAGACCTCACAGCCAGATCTGCTGGGTTTTGAGGAGTGATTTTCTTTCTTCC  
CCTTGAAGGGGAAAAAGCTATTTTCATTGGTACATTTAAAGTCCCCCAACTATGGGGAGGTACCAATTCTGGACA  
AGTGCCACTACAACAACATAAAGCTGAATTTTCAACTCCGTTGGTGGTGGGAGGCAGCGGGCAGAAATTTACT  
GTTGGCCACTGCCAGGTCTATTTTCATATTTCAAAGGAATATTGGGTGCTGCATATAGGAAGTGAAGGGGTCAATG  
TATTAAACCTGTGATTGGTTGTTTTCTGTGCTATTTGAGAGACTAAATGTGGGGGCAGATGTCAAAATACCTGT  
ACAATTTTAAATGTACAAATTAACATGAGCTGGTTTTCCCA

3702/6881  
**FIGURE 3414**

CTGCAGCTCTTGGGTTTTTTGTGGCTTCCTTCGTTATTGGAGCCAGGCCTACACCCCAGCAACCATGTCCAAGGG  
ACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGTGTTTTCCAGCACGGAAAAGTCGAGATAAT  
TGCCAATGATCAGGGAAACCGAACCCTCCAAGCTATGTCGCCCTTACGGACACTGAACGGTTGATCGGTGATGC  
CGCAAAGAATCAAGTTGCAATGAACCCCAACACAGTTTTTGTATGCCAAACGTCGATTGGACGCAGATTGA  
TGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAATGATGCTGGCAGGCCCAAGGTCCA  
AGTAGAATACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGCTTCTATGGTTCTGACAAAGATGAAGGA  
AATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGTGCCAGCTTACTTTAATGACTCTCA  
GCGTCAGGCTACCAAAGATGCTGGAATATTGCTGGTCTCAATGTACTTAGAATTATTAATGAGCCAACTGCTGC  
TGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAGAAACGTGCTCATCTTTGACCTGGGAGGTGGCAC  
TTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTCTACAGCTGGAGACACCCACTTGGG  
TGGAGAAGATTTTGACAACCGAATGGTCAACCATTTTATTGCTGAGTTAAGCGCAAGCATAAGAAGGACATCAG  
TGAGAACAAGAGAGCTGTAAGACGCTCCGTACTGCTGTGAACGTGCTAAGCGTACCCTCTCTTCCAGCACCCA  
GGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTCCATTACCCGTGCCCGATTTGAAGA  
ACTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCCCTTCGAGATGCCAAACTAGACAAGTC  
ACAGATTGATGATATTGTCCTGGTTGGTGGTTCTACTCGTATCCCCAAGATTGAGAAGCTTCTCCAAGACTTCTT  
CAATGGAAAAGAACTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTATGGTGCAGCTGTCCAGGCAGCCAT  
CTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGTCACCTCTTTCCCTTGGTATTGA  
AACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTCCTACCAAGCAGACACAGACCTTCAC  
TACCTATTCTGACAACCAGCCTGGTGTGCTTATTAGGTTTATGAAGGCGAGCGTGCCATGACAAAGGATAACAA  
CCTGCTTGGCAAGTTTGAACCTCACAGGCATACCTCCTGCACCCCGAGGTGTTCTCAGATTGAAGTCACTTTTGA  
CATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGGAAAAGAGAACAAGATTACTATCAC  
TAATGACAAGGGCCGTTTGGAGCAAGGAAGACATTGAACGTATGGTCCAGGAAGCTGAGAAGTACAAAGCTGAAGA  
TGAGAAGCAGAGGGACAAGGTGTATCCAAGAATTCATTGAGTCCTATGCCTTCAACATGAAAGCAACTGTTGA  
AGATGAGAACTTCAAGGCAAGATTAACGATGAGGACAAACAGAAGATTCTGGACAAGTGTAAATGAAATTATCAA  
CTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACAGAAAGAGCTGGAGAAAGTTTGCAA  
CCCCATCATCACCAAGCTGTACCAGAGTGACAGGAGGCATGCCAGGAGGAATGCCTGGGGGATTTCCTGGTGGTGG  
AGCTCCTCCCTCTGGTGGTGGTTCCTCAGGGCCCCACCATTTGAAGAGGTTGATTAA

3703/6881  
**FIGURE 3415**

GACTGCTAGGCGAGGAGAGGGAAGGGGGCGGAGGAGACAGGGCTACTGCAGGCGCAGAGCTGGGGGCAGCCGGGG  
GCCCCAGTGGCTGAGGCTGGTCCCGCAGCGGCCGCTTGC CGCGTTCTGGCTCCTGTGGCCTCACCAGGAAGCGT  
CAGAGTCCCGACACTGGGGAAGCTCGGAGCGCCGCTCCGCTGCCGCCGCTCCTGCCTGGCTCTGGGTCCCCGA  
GCCCCCTCCCCTGGCCCAGCCGACTCCCTCCTCCTTCCCGAACCATCCGGCTCGGGCTCCTTCCCTGGCGATGG  
CTGGCCGCTGAGCCATGGCTCAGTACGGCCACCCAGTCCGCTCGGCATGGCTGCGAGAGAGGAGCTGTACAGCA  
AAGTCACCCCCCGGAGGAACCGCCAACAGCGCCCCGGCACCATCAAGCATGGATCGGCGCTGGACGTGCTCCTCT  
CCATGGGGTTCCCCAGAGCCCGCGCACAAAAGCCTTGGCATCCACGGGAGGAAGAAGTGTTCAGGCAGCATGTG  
ACTGGTTATTCTCCCATGTGCGTGACCCCTTCTGGATGACCCCTGCCCGGGAGTACGTCTCTACCTCCGTC  
CCACCGGCCCTTAGCACAGAAGCTTTCGACTTTTGGCAGCAGTCGAAGCAGATCTGCGGGAAGAACAAGGCAC  
ACAACATCTTCCCCACATCACACTCTGCCAGTTCCTTATGTGCGAGGACAGCAAGGTGGATGCCCTGGGGGAAG  
CCCTGCAGACCACGGTCAGTCGCTGGAATGTAAGTTCTCGGCCCGCTGCCCTGGAGCTCTATACGTCTGTTCA  
ACTTCATCGGCCCTCTTTGTAAAGGAAGACAGTGGGAGGTCTCAAGAAGTTTGTGCTGACTTTGTGTCAGAGG  
CTGCATCCAAAACCGAAGTGCATGTGGAACCTCATAAGAAGCAGCTACATGTGACCCTGGCTTACCCTTCCAAG  
CCAGCCACCTACCCACCTAGAGAACTGGCCAGAACATTGACGTCAAGCTAGGGTGTGACTGGGTGGCTACCA  
TATTTTCTCGGGATATCCGATTGCTAACCATGAGACATTACAGGTCACTACCCCTATACCCACAAAAAGACG  
ATGAGCTGGAGCTGGTCCCCGGGGACTTCATCTTCATGTCTCCAATGGAGCAGACCAGCAGCGAGGGTTGGA  
TCTATGGCACGTCTTAACCACCGGTGCTCTGGACTCCTGCCTGAGAATTACATTACCAAGGCTGATGAATGCA  
GCACCTGGATATTTATGTTCTTATTCAATCTTAAATACATCGTCATCCAACCTCTCTACGTTTGGGGATGGAG  
TATTGGAGAGGCGGCTTATGAGGACCAGGGGCTCGGGGAGACGACTCCTTACTATCATCTGCCAGCCCATGC  
AGCCGCTGAGGGTCAACAGCCAGCCCGCCCCCAGAAGCGATGCCTTTTGTGTGTCGGCATGGTGAGAGGATGG  
ATGTGTGTTTGGGAAGTACTGGCTGTCCAGTGCTTCGATGCCAAAGGCCGCTACATACGCCAACCTGAACA  
TGCTCATAGTTTACCTCAGCGGAGTGGTGGTTTCCGAGATTACGAGAAAGATGCTCCCATCACTGTGTTTGGAT  
GCATGCAAGCAAGACTAGTGGGTGAAGCCTTATTAGAGAGCAATACCATTATCGATCATGTCTATTGCTCCCCGT  
CCCTTCGCTGCGTTCACTGACACAAATATCTTGAAGGTTTACAACAGAAAATCACTTGAAGATCCGTGTAG  
AGCCCGGCTTATTTAGTGGACAAAATGGGTGTGCTGGGAGCACATTACCTGCATGGATACCTCCATCAGAGTTAG  
CTGCAGCCAACTGAGTGTGATACAACTACAGACCTCACATTCCAATCAGCAAATTAGTTGTTTCAAGATCCCT  
ATGATACTTATATCAGTAGAAGTTTCCAAGTAACAAAAGAAATAATAAGTGAATGTAAAAGTAAAGGAAATAACA  
TCCTGATTGTGGCCACGCATCTTCCCTTGAAGCGTGTACCTGCCAACTTCAGGGCCTGTACCTCAGAACTCCA  
AGGACTTCGTACAAATGGTCCGAAAGATCCCATATCTGGGATTTTGTTCCTGTGAAGAATTAGGAGAACTGGAA  
TATGGCAGCTGACAGATCCACCAATCCTTCCCTCTACCCATGGACCAACTGGGGGCTTCAACTGGAGAGAGCCT  
TGCTTCAAGAATAAACACACACAGTGAACAAGAAGGAAAGGCCCTTTTGGAGTGTGTCTTCTGTGTGTTTTAAAA  
ACAGTGGGAAAATCCACACCACACTCTAAGTGGACAGCTCAGAATAATTTAGCATATTTCCCTTACACTTAAAG  
TTCTTAAGATGAGACTGTGTAAATGAGAGAAAGACTTGATTGAGAGGAAAAAATGTGTTCTCTCTGGACTCTTG  
CCTAGCTCACAAGGCTTGGAGAATTGTCTTCTTAAATCGGGGCACCTGTACAGAAGAGAATGTTTCGTTCCCT  
CTGGGTATGCACAGCTAAGGGGCCTCATTTCTCCAGAGGGAGCTGCTGGCCGCTCTAAGGGGTGCAAGAGGAA  
GGAGTGTGCCAGACAGCTGGGGGAGCATTGAAAGGACAGCTTGGGGATGGAATTTTTTTTTTTTATCTCCAT  
TTTCCAGTTAGGTAGAGCCAAGCTGAGGAATCCTTTTAAAGATTATTAGAAAACATGCCCTGAAGAGAGTTGTTCT  
TAGGTTACACATGAAATCCTACCGTCACTAGCCCCCATAACACAGTGTGCTGGCTGAAGATACCCGCTTAAGGA  
TGCTAACATTTACCTGGTACTGCCACATTTTCTCTAGAGCAGCTGGCCCTTCTTGCTACAGCCCTATCCCCCT  
CCTTGCTTCTGTGAATGGGGAGACAAAGCACTTTTGCTCTCCAAAGCACTTTTGGATACTCAGGAGGAAAGATA  
AGATACATGTTTGAAGTATTCAATCATAGGAGCAAAGAAGTGGAAAATATGAAGTGACTTGAATTAACCATGT  
TGTAAGCTAACGTGCTACTGCATTTCTAAATCATCAATATTGCTTGTCTTTGCCCTAGACTCTAGACTATGTT  
AACTAGTTAAGGATGTTACATTTTGAAGGATGTATGTTAGATATATTATTTGCAGCAAGAAGTTCATTCTGTGC  
AATATGGACATGTTTGAACCATACCAAGGGTCAGGTTGTTGTACACTTACAGTACGTGTCAACCATAATGGAA  
CATCCACAAAATGCATCAATTATACCAGGGATGTATAGTAAGTCAGGGAACATAATAAATGATGACAGTCATGGC  
TGCAGTCTACTTGTGCTGTCGTTTTGTTGTTTTCTATGATAATTTAAATACATAGGTAGGGCTACTGAGGA  
AATTTGGAGAGCCACATTCTGTGGTTTTCTATTATCTTCTCTGCAATTTAGAGGGAGTTTATTTAAAGAAA  
TAAATGACAATCAAACCAAAAAAAAAAAAAAAAAA

3704/6881

**FIGURE 3416**

MAAREELYSKVTPRNRQQRPGTIKHGSALDVLLSMGFPRARAQKALASTGGRSVQAACDWLF SHVGD PFLDDPL  
PREYVLYLRPTGPLAQKLSDFWQQSKQICGKNKAHNIFPHITLCQFFMCEDSKVDALGEALQTTVSRWKCKFSAP  
LPLELYTSSNFIGLFVKEDSAEVLKKFAADF AAEAASKTEVHVHVEPHKKQLHVTLAYHFQASHLPTLEKLAQNIDV  
KLGCDWVATIFSRDIRFANHETLQVIYPYTPQNDDELELVPGDFIFMSPMEQTSTSEGWIYGTSLTTGCSGLLPE  
NYITKADECSTWIFHGSYSILNTSSNSLTFGDGVLERRPYEDQGLGETTPLTIICQPMQPLRVNSQPGPQKRCL  
FVCRHGERMDVVFGKYWLSQCFDAKGRIYIRTNLNMPHSLPQRSGGFRDYEKDAPITVFGCMQARLVGEALLESNT  
IIDHVYCSPLRCVQTAHNILKGLQQENHLKIRVEPGLEWTKWVAGSTLPAWIPPSELAAANLSVDTTYRPHIP  
ISKLVVSESYDTYISRSFQVTKEI ISECKSKGNNILIVAHASSLEACTCQLQGLSPQNSKDFVQMVRKIPYLGFC  
SCEELGETGIWQLTDPPIPLPLTHGPTGGFNWRETLLOE

3705/6881

**FIGURE 3417**

GAAGGCACCCCATTCACCCCTGTGCCTTCCTTGCGGGCAGAGAGGGAGAGAAGGGCTCCCCAGATCTACACCC  
CTCCCTCCTGCATCTCCCTGGAGTGTTCACTTGCAAGCTGCCAAAACATGATGGCCTCTGGTTGTTCTGTTGAA  
CTCCTTGAACGTTTAGACCCTGCACACATCTGGAAGGAGCTGGCCCCCTCAGTCCCTTCCTACTCCCCAACAAGGG  
GCTCACTATCCCCAAAGAAGGAGCTGTTGGGGACCCACGACGCAGCCCCCTGTACTGGATTACAGCATATTCTCAT  
CTCTGGCCCCGAGGCTGCCTGTGGGGCGAGTGGAGACCTCCCATCACTG

3706/6881  
**FIGURE 3418**

ATGTGCAGCCCAGTGCCAGGTACACAGGGCTACAGAGATGTCATTATTGAGCACCTTCTGCATACAAAGCACCAT  
GCTGGGCATAAGGTGGACGCAAAGAGGGGCCAGGTTTCAGCCTACAAAGACCCTGCGGGTCCGCGTGCGGCTGCCG  
GACGGCCAGGTGACCGAGGAGAGCCTGCAGGCGGACAGCGACGCGGACAGCATCAGCCTCGAGCTGCGCAAGCCC  
GACGGCACCCCTCGTCTCCTTCACCGCCGACTTCAAGAAGGATGTGAAGGTCTTCCGGGCCCTGATCCTGGGGGAG  
CTGGAGAAGGGGCAGAGTCAGTTCCAGGCCCTCTGCTTTGTACCCAGCTGCAGCACAATGAGATCATCCCCAGT  
GAGGCCATGGCCAAGCTCCGGCAGAAAAATCCCCGGGCAGTGCGGCAGGCGGAGGAGGTTCCGGGTCTGGAGCAT  
CTGCACATGGATGTGCTGTCAACTTCAGCCAGGGGGCCCTGCTGAGCCCCCATCTCCACAACGTGTGTGCCGAG  
GCCGTGGATGCCATCTACACCGCCAGGAGGATGTCCGGTTCTGGCTGGAGCAAGGTGTGGACAGTTCTGTGTTT  
GAGGCTCTGCCCCAAGGCCTCAGAGCAGGCGGAGCTGCCTCGCTGCAGGCAGGTGGGGGACCACGGGAAGCCCTGC  
GTCTGCCGCTATGGCCTGAGCCTGGCCTGGTACCCCTGCATGCTCAAGTACTGCCACAGCCGCGACCGGCCACG  
CCCTACAAGTGTGGCATCCGCAGCTGCCAGAAGAGCTACAGCTTCGACTTCTACGTGCCCCAGAGGCAGCTGTGT  
CTCTGGGATGAGGATCCCTACCCAGGCTAG

3707/6881  
**FIGURE 3419**

MCSPVPGTQGYRDVIEHLLHTKHHAGHKVDAKRGVQPTKTLRVVRVRLPDGQVTEESLQADSDADSISLELRKP  
DGTLSFTADFKKDVKVFRALILGELEKGQSQFQALCFVTQLQHNEIIPSEAMAKLRQKNPRAVRQAEEVRGLEH  
LHMDVAVNFSQGALLSPHLHNVCAEAVDAIYTRQEDVRFWLEQGVDSVFEALPKASEQAELPRCRQVGDHGKPC  
VCRYGLSLAWYPCMLKYCHSRDRETPYKCGIRSCQKSYSFDFYVPRQLCLWDEDPYPG



3708/6881

**FIGURE 3420**

CTCCTCACAGGTGTGTCTCTAGTCCCTCGTGGTTGCGCTGCCCCACTCCCTGCCGAGACGCCTGCCAGAAAGGTCAC  
CTATCTGAACCCCCAGCAAGCCTGAAACAGCTCAGCCAAGCACCCCTGCCGATGGAAGCTGCAGATGCCTCCAGGAG  
CAACGGGTCGAGCCCAGAAGCCAGGGATGCCCCGAGCCCGTCGGGCCCCAGTGCCAGCCTGGAGAATGGCACCAA  
GGCTGACGGCAAGGATGCCAAGACCACCAACGGGCACGGCGGGGAGGCAGCTGAGGGCAAGAGCCTGGGCAGCGC  
CCTGAAGCCAGGGGAAGGTAGGAGCGCCCTGTTTCGCGGGCAATGAGTGGCGGCGACCCATCATCCAGTTTGTGCA  
GTCCGGGGACGACAAGAATCCAATCTTCAAGCATGGACTCTATGGAAGGCAAGAGGTGCGCGTACGCAGGGCT  
CCAGCTGGGGGCTGCCAAGAAGCCACCCGTTACCTTTGCCGAAAAGGGCGAGCTGCGCAAGTCCATTTTCTCGGA  
GTCCCGGAAGCCCACGGTGTCCATCATGGAGCCCCGGGAGACCCGGCGGAACAGCTACCCCCGGGCCGACACGGG  
CCTTTTTTACGGTCCAAGTCCGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAGCAGAAGGCGGT  
CAAGTCTGCCTGGTGTGCCAGGCCTCCTTCTGCGAGCTGCATCTCAAGCCCCACCTGGAGGGCGCCGCTTCCG  
AGACCACAGCTGCTCGAGCCCATCCGGGACTTTGAGCCCCGAAGTGTCCCGTGCATGGCAAGACGATGGAGCT  
CTTCTGCCAGACCGACCAGACCTGCATCTGCTACCTTTGCATGTTCCAGGAGCACAAGAATCATAGCACCGTGAC  
AGTGGAGGAGGCCAAGGCCGAGAAGGAGACGGAGCTGTCACTGCAAAAGGAGCAGCTGCAGCTCAAGATCATTGA  
GATTGAGGATGAAGCTGAGAAGTGGCAGAAGGAGAAGGACCGCATCAAGAGCTTACCACCAATGAGAAGGCCAT  
CCTGGAGCAGAACTTCCGGGACCTGGTGGCGGACCTGGAGAAGCAAAAGGAGGAAGTGAGGGCTGCGCTGGAGCA  
GCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCATGGATGCTCTGGATGAGAGAGCCAAGGTGCTGCATGA  
GGACAAGCAGACCCGGGAGCAGCTGCATAGCATCAGCGACTCTGTGTTGTTTCTGCAGGAATTTGGTGCATTGAT  
GAGCAATTACTCTCTCCCCCACCCTGCCACCTATCATGTCCTGCTGGAGGGGGAGGGCCTGGGACAGTCACT  
AGGCAACTTCAAGGACGACCTGCTCAATGTATGCATGCGCCACGTTGAGAAGATGTGCAAGGCGGACCTGAGCCG  
TAACCTTATTGAGAGGAACCACATGGAGAAGGTTGGTGACCATCGCTATGTGAACAATACACGAACAGCTTCGG  
GGGTGAGTGGAGTGACCCGACACCATGAAGAGATACTCCATGTACCTGACACCCAAAGGTGGGTCCGGACATC  
ATACCAGCCCTCGTCTCCTGGCCGCTTACCAAGGAGACCACCCAGAAGAATTTCAACAATCTCTATGGCACCAA  
AGGTAACATACCTCCCGGTCTGGGAGTACTCCTCCAGCATTCAGAACTCTGACAATGACCTGCCCGTCTGCTCA  
AGGCAGCTCCTCCTTCTCCTGAAAGGCTATCCTCCTCATGCGGAGCCAAAGCCCCAAGGCCAGCCCCAGAC  
TTGGAAATCTGGCAAGCAGACTATGCTGTCTACTACCGGCCATTCTACGTCAACAAAGGCAACGGGATTGGGTC  
CAACGAAGCCCCATGAGCTCCTGGCGGAAGGAACGAGGCGCCACACCCCTGCTCTTCTCCTGACCTGCTGCTC  
TTGCCTTCTAAGCTACTGTGCTGTCTGGGTGGGAGGGAGCCTGGTCTGCACCTGCCCTCTGCAGCCCTCTGCC  
AGCCTCTTGGGGGAGTTCCGGCCTCTCCGACTTCCCCACTGGCCACACTCCATTGAGACTCCTTTCTGCCTTG  
TGACCTCAGATGGTCACCATCATTCCTGTGCTCAGAGGCCAACCCATCACAGGGGTGAGATAGGTTGGGGCCTGC  
CCTAACCCGCCAGCCTCCTCCTCTCGGGCTGGATCTGGGGGCTAGCAGTGAGTACCCGCATGGTATCAGCCTGCC  
TCTCCCGCCACGCCCTGCTGTCTCCAGGCCTATAGACGTTTCTCTCCAAGGCCCTATCCCCAATGTTGTGACG  
AGATGCCTGGACAGCACAGCCACCCATCTCCCATTCACATGGCCACCTCCTGCTTCCAGAGGACTGGCCCTAC  
GTGCTCTCTCTCGTCTACCTATCAATGCCAGCATGGCAGAACTGCAGCCCTTGGCCACTGCAGATGGAAACC  
TCTCAGTGTCTTGACATCACCTACCCAGGCGGTGGGTCTCCACCACAGCCACTTTGAGTCTGTGGTCCCTGGAG  
GGTGGCTTCTCCTGACTGGCAGGATGACCTTAGCCAAGATATTCTCTGTTCCCTCTGCTGAGATAAAGAATTCC  
CTTAACATGATATAATCCACCCATGCAATAGCTACTGGCCAGCTACCATTTACCATTTGCCTACAGAATTTCA  
TTCAGTCTACACTTTGGCATTCTCTCTGGCGATGGAGTGTGGCTGGGCTGACCGCAAAAGGTGCCTTACACACTG  
CCCCACCCCTCAGCCGTTGCCCATCAGAGGCTGCCTCCTCCTCTGATTACCCCCATGTTGCATATCAGGGTG  
CTCAAGGATTGGAGAGGAGACAAAACCAGGAGCAGCAGTGGGGACATCTCCCGTCTCAACAGCCCCAGGCCTA  
TGGGGGCTCTGGAAGGATGGGCCAGCTTGAGGGGTGGGGAGGAGACATCCAGCTTGGGCTTTCCCTTTGGA  
ATAAACCATTTGGTCTGTC

3709/6881  
**FIGURE 3421**

MEAADASRNGSSPEARDARSPSGPSGSLNGTKADGKDAKTTNGHGGEAAEGKSLGSALKPGEGRSALFAGNEW  
RRPIIQFVESGDDKNSNYFSMDSMEGKRSPYAGLQLGAACKPPVTFAEKGELRKSIFSES RKPTVSIMEPGETRR  
NSYPRADTGLFSRSKSGSEEVLCDSICIGNKQKAVKSLVCQASFCEHLKPHLEGAAFRDHQLLEPIRDFEARKC  
PVHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQLKIEIEDEAEKWQKEKDRIK  
SFTTNEKAILEQNFRDLVRDLEKQKEEVRAALEQREQDAVDQVKVIMDALDERAKVLHEDKQTREQLHSISDSVL  
FLQEFGALMSNYSLPPPLPTYHVLLEGEGLGQSLGNFKDDLLNVCMRHVEKMCKADLSRNFIERNHMENGGDHRY  
VNNYTNSFGGEWSAPDTMKRYSMYLTPKGGVRTSYQPSSPGRFTKETTKNFNNLYGTGKNYTSRVWEYSSSIQN  
SDNDLPVVQGSSSFSLKGYPSLMRSQSPKAQPQTWKS GKQTMLSHYRPFYVNKGNGIGSNEAP

3710/6881  
**FIGURE 3422**

CTCCTCACAGGTGTGTCTCTAGTCTCGTGGTTGCCTGCCCCACTCCCTGCCGAGACGCCTGCCAGAAAGGTAC  
CTATCCTGAACCCAGCAAGCCTGAAACAGCTCAGCCAAGCACCTGCGATGGAAGCTGCAGATGCCTCCAGGAG  
CAACGGGTCGAGCCCAGAAGCCAGGGATGCCCGAGCCCGTCGGGCCCCAGTGGCAGCCTGGAGAATGGCACCAA  
GGCTGACGGCAAGGATGCCAAGACCACCAACGGGCACGGCGGGGAGGCAGCTGAGGGCAAGAGCCTGGGCAGCGC  
CCTGAAGCCAGGGGAAGGTAGGAGCGCCCTGTTTCGGGGCAATGAGTGGCGGCGACCCATCATCCAGTTTGTGCA  
GTCCGGGGACGACAAGAAGCTCCAAGTCTCAGCATGGACTCTATGGAAGGCAAGAGGTGCGCGTACGCAGGGCT  
CCAGCTGGGGGCTGCCAAGAAGCCACCCGTACCTTTGCCGAAAAGGGCGAGCTGCGCAAGTCCATTTTCTCGGA  
GTCCCGGAAGCCACGGTGTCCATCATGGAGCCCCGGGAGACCCGGCGGAACAGCTACCCCCGGGCCGACACGGG  
CCTTTTTTACGGTCCAAGTCCGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAAGCAGAAGGCGGT  
CAAGTCTGCCTGGTGTGCCAGGCCTCCTTCTGCGAGCTGCATCTCAAGCCCCACCTGGAGGGCGCCGCTTCCG  
AGACCACAGCTGCTCGAGCCCATCCGGGACTTTGAGGCCCGCAAGTGTCCCGTGCATGGCAAGACGATGGAGCT  
CTTCTGCCAGACCGACAGACCTGCATCTGCTACCTTTGCATGTTCCAGGAGACAAGAATCATAGCACCGTGAC  
AGTGGAGGAGGCCAAGGCCGAGAAGGAGACGGAGCTGTCACTGCAAAAGGAGCAGCTGCAGCTCAAGATCATTGA  
GATTGAGGATGAAGCTGAGAAGTGGCAGAAGGAGAAGGACCGCATCAAGAGCTTACCACCAATGAGAAGGCCAT  
CCTGGAGCAGAACTTCCGGGACCTGGTGCGGGACCTGGAGAAGCAAAAGGAGGAAGTGAGGGCTGCGCTGGAGCA  
GCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCATGGATGCTCTGGATGAGAGAGCCAAGGTGCTGCATGA  
GGACAAGCAGACCCGGGAGCAGCTGCATAGCATCAGCGACTCTGTGTTGTTTCTGCAGGAATTTGGTGCATTGAT  
GAGCAATTACTCTCTCCCCCACCCTGCCACCTATCATGTCTGCTGGAGGGGGAGGGCCTGGGACAGTCACT  
AGGCAACTTCAAGGACGACCTGCTCAATGTATGCATGCGCCACGTTGAGAAGATGTGCAAGGCGGACCTGAGCCG  
TAACCTTATTGAGAGGAACCACATGGAGAACGGTGGTGACCATCGCTATGTGAACAACACGAAACAGCTTCGG  
GGGTGAGTGGAGTGACCCGGACACCATGAAGAGATACTCCATGTACCTGACACCCAAAGGTGGGGTCCGGACATC  
ATACCAGCCCTCGTCTCCTGGCCGCTTACCAGGAGACACCCAGAAGAATTTCAACAATCTCTATGGCACCAA  
AGGTAACTACACCTCCCGGTCTGGGAGTACTCCTCCAGCATTGAGAACTCTGACAATGACCTGCCCCGTCGTCCA  
AGGCAGCTCCTCCTTCTCCCTGAAAGGCTATCCCTCCCTCATGCGGAGCCAAAGCCCCAAGGCCAGCCCCAGAC  
TTGGAAATCTGGCAAGCAGACTATGCTGGTGGTTTAAGCAAGGTCTGAGCATCCCTCAAGTCTGCTGTGGACCA  
CACAAAGGCAAGGAGCTGACCAGGAGGTGTCAAGTCCCTGAGAGACAGGGCCAAAGGCAGTGATCCCTTGAGTCT  
CACTACCGGCCATTCTACGTCAACAAAGGCAACGGGATTGGGTCCAACGAAGCCCCATGAGCTCCTGGCGGAAGG  
GTGCTCAAGGATTGGAGAGGAGACAAAACAGGAGCAGCACAGTGGGGACATCTCCCGTCTCAACAGCCCCAGGC  
CTATGGGGGCTCTGGAAGGATGGGCCAGCTTGCAGGGGTGGGGAGGGAGACATCCAGCTTGGGCTTTCCCTTT  
GGAATAAACCATTGGTCTGTC

3711/6881

**FIGURE 3423**

MEAADASRSNGSSPEARDARSPSGPSGSLNGTKADGKDAKTTNGHGGEAAEGKSLGSALKPGEGRSALFAGNEW  
RRPIIQFVESGDDKNSNYFSMDSMEGKRSPYAGLQLGAACKPPVTFAEKGELRKSIFSES RKPTVSIMEPGETRR  
NSYPRADTGLFSRSKSGSEEVLCDSICIGNKQKAVKSCLVQASFCELHLKPHLEGAAFRDHQLLEPIRDFEARKC  
PVHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQLKIIIEIEDEAEKWQKEKDRIK  
SFTTNEKAILEQNFRDLVRDLEKQKEEVRAALEQREQDAVDQVKVIMDALDERAKVLHEDKQTREQLHSISDSVL  
FLQEFGALMSNYSLPPPLPTYHVLLLEGGLGQSLGNFKDDLLNVCMRHVEKMCKADLSRNFIERNHMENGGDHRY  
VNNYTNSFGGEWSAPDTMKRYSMYLTPKGGVRTSYQPSSPGRFTKETTKQNFNNLYGKGNYSRVWEYSSSIQN  
SDNDLPVVQSSSFSLKGYP SLMRSQSPKAQPQTWKSQKQTMLVV

3712/6881

**FIGURE 3424**

GGTGACTTTTTGAAAAGATAGTATCTCTTGTGCAAGAAATGGTCCATCTGTGATTTCAAGTCTCTCGCTTGAGT  
GAATTGGATGGAAGTGTGAATTTAGCCGAAGTGGCCAAAGAAATCCTGTTCCCTGTGATAATGAACGCCATCAGC  
CTCTGCACCTCTGTTTTCCCTTCTGCCACATGTTGCCTGTTCTCCGTGACTTTGGCCCCGAGCGCCTCCACCCC  
AGAGACCCGGACCAAGTTCACACAGGACAATCTGTGCCGTGCCAGCGCAAGCGCCTGGAGCTCGGCCAACCTGT  
GGGTTCTTGTGGACTGCATCCTTCGCGACACCTCCGAGGACCTGGGACTCCAGTGTGACGCCGTGAACCTGGCCT  
TCGGGCGCCGCTGTGAGGAAGTGGAGGACGCGCGGCACAAGCTGCAGCACCACCTGCACAAGATGCTGCGGGAAA  
TCACAGATCAGGAACACAACGTGGTGGCACTGAAGGAGGCCATCAAGGACAAGGAGGAACCTCTGCACATAGCCC  
AGACCCGGCTGTACCTGCCCTCACACCGGCCCAACATGCAGCTGTGCCGCGAAGCAGCCAGTTTCAAGTACTGCC  
TGGGCCTCTGAAGCAGTCCCAXGTGCCCCCATCCACCTCCTCGCTGTTACCCTCTCCAATAAACACTCCAATCTC  
CACACACACATCCCCACAGGTGCTGAGAGGGGAGGGAGACTTTGCGGCCACACACAACACGCAAGCAGCCTTA  
AACACACAGATATAGACATGACACTGGGCAGGTCATGGGTGCGGGGCCTCCAGTGCCAGGGACCTGTGCCACG  
TGGTCTCACCCACCCCTGTGCTACCTCATCTTCCCGGGAGGAAGCTCCTTCAGACAAGGTGAGCTCCTGGAGGC  
CACGGGGCCAGAGAGGCCAGAGAGGGCCATTCCCTGCTGCCCTGAGGGTGTGTCCCCACCTCTGGTGAAAGTA  
TGACCTACGCCTGGGCTACAGGCATAGATGGGCCGTCCTTTTGTTCCCTTGTTAACGGATGCC

3713/6881  
**FIGURE 3425**

MLPVLRDFGPAAPPPQRPSPSSHTICAVPSASAWSSANLWVLVDCILRDTSEDLGLQCDVNLAFGRRCEELED  
ARHKLQHHLHKMLREITDQEHNVVALKEAIKDKEEPLHIAQTRLYLPSHRPNMQLCREAAQFRYCLGL

3714/6881

**FIGURE 3426**

ATGGGAAATTCGATGGACATGGACATAAGCCCCCTGAGGCCCCAGGACTATCTTTTCAGTTGTGAATAAGGCC  
GACGAATTGAAGTGTGGTTCAGGGCCAGTGTATATTAGTGGACAGCACTTAGTATCTGTGGAGGAAGATGCAGAG  
TCAGAAGATGAAGAAGAGGAGGATGTGAACTCTTAATCGAAGCCAAGTTCATCAATTATGTGAAGAATTGCTTC  
CGGAAGACTGACCAGGAGGCTATTCAAGATCTCTGGCAGCGGAGGAAGCCTCTTGAAGAAAATAGTTTAAACAGT  
TTTTTATAA

3715/6881  
**FIGURE 3427**

ACAATTTTCGCGCCAAACTTGACCGCGCTTCTGCTGTAACGAGCGGGCTCGGAGGTCTCCCGCTGCTGTCAATGG  
TTGGTTTCGCTAAACTGCATCGTCGCTGTGTCCCAGAACATGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCAC  
CGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCACAACCTCTTCAGTAGAAGGTAAACAGAACTCTGGTGA  
TTATGGGTAAGAAGACCTGGTTCTCCATTCTGAGAAGAATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCA  
GCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTCTTTCCAGAAGTCTAGATGATGCCTTAAACCTTACTG  
AACAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGCAGTTCTGTTTATAAGGAAGCCATGA  
ATCACCCAGGCCATCTTAACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAA  
TTGATTTGGAGAAATATAAACTTCTGCCAGAATACCCAGGTGTTCTCTCTGATGTCCAGGAGGAGAAAGGCATTA  
AGTACAAATTTGAAGTATATGAGAAGAATGATTAATGAAGGTGTTTTCTAGTTTAAAGTTGTTCCCCCTCCCTC  
TGAAAAAGTAGTATTTTTACATTAGAAAAGGTTTTTTGTTGACTTTAGATCTATAATTAATTTCTAAGCAACTA  
GTTTTTATTTCCCACTACTCTTGTCTCTATCAGATACCATTTATGAGACATTCTTGCTATAACTAAGTGTCTCTC  
CAAGACCCCAACTGAGTCCCCAGCACCTGCTATAGTGAGCTGCCATTCCACACCCATCAGATGTGGCACTCTTGC  
CAGTCTTGACATTGTGCGGCTTTTACATGTTGGTAATATTTTATAAAGATGAAGATCCACATACCCCTCAACT  
GAGCAGTTTCACTAGTGGAATAACAAAAGATTCTACGTGTATATCCAGAGGTTTGTAGATAAATGTTGCCACC  
TTGTTTGTAACAGTGGAATAATGAAAACAACCTGGAAGTCCAGTGATGGGAAAATGAGTATGTTTCTGTCTTAGA  
TTGGGGAACCCAAAGCAGATTGCAAGACTGAAATTTAGTGAAAGCAGTGATTTGCTAGGTCATACCAGAAATC  
ATCAATTGAGGTACGGAGAACTGAACTGAGAAGGTAAAGAAAGCAATTTAAAGTCAGCGAGCAGGTTCTCATTG  
ATAACAAGCTCCATACTGCTGAGATACAGGGAAATGGAGGGGGGAAAGCTGGAGTATTGATCCCGCCCCCTCTCT  
TGTTTGTCAGCTCCCTGTCTGTGTGGGCGGAACATAGTCCAGCTGCTCTATAGCAAGTCTCAGGTGTTTGCA  
GTAAGAAGCTGCTGGCATGCACGGGAACAGTGAATGCCAAACACTTAAAGCAATTCGATGTTTAAAGTATGTAAGT  
TCTTTTTTTTTTAGACAGCGTTTCGCTCTTGTTGCCAGGCTAGCATGCAATGGTGTGACCTCGGCTTACTGCAA  
CCTCCGCTTTCCAGATTCAAGCGATTCTCCTGCCTCAGGCTCCCAAGTAGCTGGGACCGGGTGCGCGCCACCAC  
GCCCCGCTAATTTTTGTATTTTGTATTTTGGTAGAGATGGGGTTTCGCCATGTTGGTCAGGCTAGTCTCGAACT  
CGTGACCGCAAGCGATTACCCACCTCAGCCTCCCAAAGTGCTGGGATTACCGGCTTGAGCCACCACACCCGGCA  
CATCTTCATTCTTTTTATGTAGTAAAAAGTATAAGGCCACACATGGTTTTATTGAAGTATTTTACAATTTAAAAA  
AATACAGAAGCAGGAAAACCAATTATAAGTTCAAGTGAGGGATGATGGTTGCTTGAACCAAGGGTTGCATGTAG  
TAAGAAATTGTGATTAAAGATATATTTTAAAGTTATAAGTAGCAGGATATTCTGATGGAGTTTGACTTTGGTTTT  
GGGCCACGGAGTTTCAGATGCCTTTGAGAAATGAATGAAGTAGAGAGAAAATAAAAGAAAAGTACCCAGGCAC  
AGTGGCTCAGCCTGTAATCCAGCGCTTTGGGAGGCTAAGGCAGGCAGATCACTTGAGACCAGCTTGGGCAACA  
TGGCGAAGCCCCATCTCTACAAAAACACAGAAATTAGCTGGGCATTGTGGCGCACACCTGTATTTCCATCTACT  
CAGGAAGCTGAGATGGAAGAATTAATTGAGCCACGAGTTCAAGGCTGCAGTGAGTCGTGATTGTGCCACTGCAC  
TCCAGCCGGGGTGACAGAAGAGACCTTGCTCGAAAAGGAATCTGAAAACAATGGAACCATGCCTTCATAATTCT  
AGAAAGTTATTTTCACTGATAAATCTATATTACCCAAATAATCAAGGGTGAAGGTAAAATAATACATTTTTAG  
ACAAGCAAAGACTCAGGGGTACCTCCATGTGCCCTTTTAGGGAAGCTGTTGGAGAAAATACTCCAGCAAAATG  
AAGGAGTACACAAACCAGAGAATGACATGAATCCAGCAATAGGATCCAACACAGGCAATATTCCAGCTATGGAG  
CTAGCTTTAAAAGGAACAGTAAAAATTAATCGGTAGCTGGGTGGAATGGCCCATGCCTGTAGTCCCAGCTA  
CTCGGGAGGCTCAGCAGCAGGACGACTTGAGCCCAAGAGTTCCAGACCAGCCTGGCCACCTTAGTGAGATCCCTT  
CTCTTAAAAATAATAACTTATTGCCAGATTGCGGCAATTTGGAAAGAAGTTCATTGAAGATAAAGCAAAAGTAAA  
AAAAAAAAAAAAAAAAAAAAAGGGGAAAGGGTTGGTTAGGCAATCATTCTAGGGCAGAAAGAAGTACAGGATAG  
GAAGAGCATAATACACTGTTTTTCTCAACAAGGAGCAGTATGTACACAGTCATAATGATGTGACTGCTTAGCCCC  
TAAATATGGTAATACTCTGAGGACAATATGGGAGGAAAAGTGAAGATTGTGATGGTGTAAGAGCTAAATCCTCAT  
CTGTATATCCAGAAATCACTATATAATACATAAATGAAATGACTAAGTTATGTGAGGAAAAAACAGAAAGAC  
ATTGCTAAAAGAGTTAAAAGTCATTGCTCTGGAGAATTAGGAGGGATGGGCGAGGGGACTGTTAGGATGCATTAT  
AAACTGAAAAGCCTTTTTAAAATTTTATGTATTAATATATGCATTCACTTGAAAACTAAAAAAAACAATAATT  
TGGA AAAACCCATGAAGGTAACCGGAAGGAAAACTAAGAGAATGAAAGTATTTGCCTCTGGAAGAACA  
CTGGCAGGACTGTTGTTTTTCAATTGTAAGACTTTTGGAGCCATTAAATTGACTTAACCATTTTCTATTCTTCTT  
TAATAAGAACAATTCATCTTAATAAAGAGTTACACTTGTTAATA



3716/6881  
**FIGURE 3428**

GGAGGTCCTCCCGCTGCTGTCATGGTTGGTTCGCTAAACTGCATCGTCGCTGTGTCCCAGAACATGGGCATCGGC  
AAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCACAACCTCTTCA  
GTAGAAGGTAAACAGAATCTGGTGATTATGGGTAAGAAGACCTGGTTCCTCATTCTGAGAAGAATCGACCTTTA  
AAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTCTTCCAGAAGT  
CTAGATGATGCCTTAAACTTACTGAACAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGC  
AGTTCTGTTTATAAGGAAGCCATGAATCAGGAGGCCATCTTAACTATTTGTGACAAGGATCATGCAAGACTTT  
GAAAGTGACACGTTTTTCCAGAAATTGATTTGGAGAAATATAAACTTCTGCCAGAATACCCAGGTGTTCTCTCT  
GATGTCCAGGAGGAGAAAGGCATTAAGTACAAATTTGAAGTATATGAGAAGAATGATTAATATGAAGGTGTTTT  
TAGTTTAAGTTGTTCCCCCTCCCTCTGAAAAAAATACCATTTATGAGACATTCTTGCTATAACTAAGTGCTTCTC  
CAAGACCCCAACTGAGTCCCCAGCACCTGCTATAGTGAGCTGCCATTCCACACCCATCACATGTGGCACTCTTGC  
CAGTCCTTGACATTGTCGGGCTTTTCACATGTTGGTAATATTTATTAAAGATGAAGATCC

3717/6881  
**FIGURE 3429A**

ATGTCCTGGCGCGCCGAGAGAAGCAGAGCAGCACTCCCGGTTCCCTGTTCCCTCTCGCCGCGCGCTCCTGCCCC  
AAGAATGGCTCCAGCTCCGATTCTCTCCGTGGGGGAGAACTGGGAGCCGCGGCCGCCGACGCTGTGACCGGCAGG  
ACCGAGGAGTACAGGCGCCGCCACACTATGGACAAGGACAGCCGTGGGGCGGCCGCGACCACTACCACTACT  
GAGCACCCTTCTTCCGCGGAGCGTCATCTGTGACTCCAATGCCACTGCACTGGAGCTTCCCGGCCCTTCTCTT  
TCCCTGCCCCAGCCAGCATCCCCGCGGCTGTCCCGCAGAGTGTCCACCGAGCCCCACCGGGAAGAGACCGTG  
ACCGCCACCGCCACTTCCCAGGTAGCCAGCAGCCTCCAGCCGTGCCGCCCTGGGGAACAGGCGCTCGCGGGC  
CCTGCCCCCTCGACTGTCCCCAGCAGTACCAGCAAAGACCGCCAGTGTCCAGCCTAGCCTTGTGGGAGCAAA  
GAGGAGCCGCGCGCGGAGAGAAGTGGCAGCGCGCGCGCAGCGCCAAGGAGCCACAGGAGGAACGGAGCCAGCAG  
CAGGATGATATCGAAGAGCTGGAGACCAAGGCCGTGGGAATGTCTAACGATGGCCGCTTCTCAAGTTTGACATC  
GAAATCGGCAGAGGCTCCTTTAAGACGGTCTACAAAGGTCTGGACACTGAAACCACCGTGGAAGTCGCTGGTGT  
GAACTGCAGGATCGAAAATTAACAAAGTCTGAGAGGCAGAGATTTAAAGAAGAAGCTGAAATGTTAAAGGTCTT  
CAGCATCCCAATATTGTTAGATTTTATGATTCTGGGAATCCACAGTAAAAGGAAAGAGTGCATTGTTTGGTG  
ACTGAACTTATGACGTCTGGAACACTTAAACGTATCTGAAAAGGTTAAAGTGATGAAGATCAAAGTTCATAAG  
AGCTGGTGCCGTGAGATCCTTAAAGGTCTTCAGTTTCTCATACTCGAACTCCACCTATCATTACCGCGATCTT  
AAATGTGACAACATCTTTATCACCAGCCCTACTGGCTCAGTCAAGATTGGAGACCTCGGTCTGGCAACCCCTGAAG  
CGGGCTTCTTTTGCCAAGAGTGTGATAGGTACCCAGAGTTCATGGCCCTGAGATGTATGAGGAGAAATATGAT  
GAATCCGTTGACGTTTATGCTTTTGGGATGTGCATGCTTGAGATGGCTACATCTGAATATCCTTACTCGGAGTGC  
CAAAATGCTGCACAGATCTACCGTCCGTGACCAAGTGGGTGAAGCCAGCCAGTTTTGACAAAGTAGCAATTCCT  
GAAGTGAAGGAAATTATTGAAGGATGCATACGACAAAACAAAGATGAAAGATATTCCATCAAAGACCTTTTGAAC  
CATGCCCTTCTTCCAAGAGGAAACAGGAGTACGGGTAGAATTAGCAGAAGAAGATGATGGAGAAAAATAGCCATA  
AAATTATGGCTACGTATTGAAGATATTAAGAAATTAAGGGAATAACAAAGATAATGAAGCTATTGAGTTTCT  
TTTGATTTAGAGAGAGATGTCCAGAAGATGTTGCACAAGAAATGGTAGAGTCTGGGTATGCTGTGAAGGTGAT  
CACAAGACCATGGCTAAAGCTATCAAAGACAGAGTATCATTAATTAAGAGGAAACGAGAGCAGCGGCAGTTGGTA  
CGGGAGGAGCAAGAAAAAAAAGCAGGAAGAGAGCAGTCTCAAACAGCAGGTAGAACAATCCAGTGCTTCCCAG  
ACAGGAATCAAGCAGCTCCCTTCTGCTAGCACCGGCATACCTACTGCTTCTACCACTTCAGCTTCAGTTTCTACA  
CAAGTAGAACCTGAAGAACCTGAGGCAGATCAACATCAACAACTACAGTACCAGCAACCCAGTATATCTGTGTTA  
TCTGATGGGACGGTTGACAGTGGTCAGGGATCCTCTGTCTTCACAGAATCTCGAGTGAGCAGCCAACAGACAGTT  
TCATATGGTTCCCAACATGAACAGGCACATTCTACAGGCACAGTCCCAGGGCATATACCTTCTACTGTCCAAGCA  
CAGTCTCAGCCCCATGGGGTATATCCACCTCAAGTGTGGCACAGGGGCAGAGCCAGGGTCAGCCATCCTCAAGT  
AGCTTAACAGGGGTTTCTATCTTCCCAACCCATACAACATCCTCAGCAGCAGCAGGGAATACAGCAGACAGCCCCT  
CCTCAACAGACAGTGCAGTATTCACCTTTCACAGACATCAACCTCCAGTGAGGCCACTACTGCACAGCCAGTGAGT  
CAGCCTCAAGCTCCACAAGTCTTGCCTCAAGTATCAGCTGGAAAACAGCTTCCAGTTTCCCAGCCAGTACCAACT  
ATCCAAGGCGAACCTCAGATCCCAGTTGCGACACAACCCCTCGGTTGTTCCAGTCCACTCTGGTGCTCATTTCCCT  
CCAGTGGGACAGCCGCTCCCTACTCCCTTGCTCCCTCAGTACCCTGTCTCTCAGATTCCCATATCAACTCCTCAT  
GTGTCTACGGCTCAGACAGGTTTCTCATCCCTTCCCATACAATGGCAGCTGGCATTACTCAGCCTCTGCTCAG  
TTGGCTTCTATCTGCTACAACAGCTGCGATCCCGGGGGTATCAACTGTGGTTCCCTAGTCAGCTTCCAACCCCTCTG  
CAGCCTGTGACTCAGCTGCCAAGTCAGGTTCAACCCACAGCTCCTACAACCAGCAGTTTCACTCCATGGGAATACCA  
GCTAACCTTGGACAAGCTGCTGAGGTTCCACTTTCCTCTGGAGATGTTCTGTACCAGGGCTTCCCACCTCGACTG  
CCACCACAGTACCCAGGAGATTCAAATATTGCTCCCTCTTCCAACGTGGCTTCTGTTTGCATCCATTCTACAGTC  
CTATCCCTTCCCATGCCGACAGAAGTACTGGCTACACCTGGGTACTTTCCCACAGTGGTGCAGCCTTATGTGGAA  
TCAAATCTTTTAGTTTCTATGGGTGGTGTAGGAGGACAGGTTCAAGTGTCCCAGCCAGGAGGGAGTTTAGCACAA  
GCCCCACTACATCCTCCCAGCAAGCAGTTTTGGAGAGTACTCAGGGAGTCTCTCAGGTTGCTCCTGCAGAGCCA  
GTTGCAGTAGCACAGACCCAAGCTACCCAGCCGACCACTTTGGCTTCCTCTGTAGACAGTGCACATTTCAGATGTT  
GCTTCAGGTATGAGTGATGGCAATGAGAACGTCCCATCTTCCAGTGGAAGGCATGAAGGAAGAATACAAAACGG  
CATTACCGAAAAATCTGTAAGGAGTCGCTCTCGACATGAAAAAATTCACGCCAAAATTAAGAATTTTGAATGTT  
TCAAATAAAGGAGACCGAGTAGTAGAATGTCAATTAGAGACTCATAATAGGAAAATGGTTACATTCAAATTTGAC  
CTAGATGGTGACAACCCCGAGGAGATAGCAACAATTATGGTGAACAATGACTTTATTCTAGCAATAGAGAGAGAG  
TCGTTTGTGGATCAAGTGCAGAGAAATTATTGAAAAAGCTGATGAAATGCTCAGTGAGGATGTGAGTGAACCA

3718/6881  
**FIGURE 3429B**

GAGGGTGATCAGGGATTGGAGAGTCTACAAGGAAAGGATGACTATGGCTTTTCAGGTTCTCAGAAATTGGAAGGA  
GAGTTCAAACAACCAATTCTGCGTCTTCCATGCCACAGCAAATAGGCATTCTACCAGTTCTTTAACTCAAGTT  
GTTCAATTCTGCGGGAAGGCGGTTTATAGTGAGTCTGTGCCAGAAAGCCGATTACGAGAATCAAAGTTTTCCCC  
AGTGAAATAACAGATACAGTTGCTGCCTCTACAGCTCAGAGCCCTGGAATGAACTTGTCTCACTCTGCATCATCC  
CTTAGTCTACAACAGGCCTTTTCTGAACTTAGACGTGCCCAAATGACAGAAGGACCCAACACAGCACCTCCAAAC  
TTTAGTCATACAGGACCAACATTTCCAGTAGTACCTCCTTTCTTAAGTAGCATTGCTGGAGTCCCAACCACAGCA  
GCAGCCACAGCACCAAGTCCCTGCAACAAGCAGCCCTCTTAATGACATTTCCACATCAGTAATTCAGTCTGAGGTT  
ACAGTGCCCACTGAAGAGGGGATTGCTGGAGTTGCCACCAGCACAGGTGTGGTAACTTCAGGTGGTCTCCCCATA  
CCACCTGTGTCTGAATCACCAGTACTTTCCAGCGTAGTTTCAAGTATCACAATACCTGCAGTTGTCTCAATATCT  
ACTACATCCCCGTCACCTCAAGTCCCACATCCACATCTGAGATCGTTGTTTCTAGTACAGCACTGTATCCTTCA  
GTAACAGTTTCAGCAACTTCAGCCTCTGCAGGGGCGAGTACTGCTACCCAGGTCTTAAGCCTCCAGCTGTAGTA  
TCTCAGCAGGCAGCAGGCAGCACTACTGTGGGAGCCACATTAACATCAGTTTCTACCACCCTTCAATCCCAAGC  
ACAGCTTCACAGCTGTGCATTAGCTTAGCAGCAGTACTTCTACTCTACTTTAGCTGAAACCGTGGTAGTTAGC  
GCACACTCACTAGATAAGACATCTCATAGCAGTACAAGTGGATTGGCTTTCTCCCTCTCTGCACCATCTTCCTCT  
TCCTCTCTGGAGCAGGAGTGTCTAGTTATATTTCTCAGCCTGGTGGGCTGCATCCTTTGGTCATTCCATCAGTG  
ATAGCTTCTACTCTATTTCTTCCCAAGCAGCAGGACCTACTTCTACACCTTTATTACCCCAAGTACCTAGTATC  
CCACCCITGGTACAGCCTGTTGCCAATGTGCTGCTGTACAGCAGACACTAATTCATAGTCAGCCTCAACCAGCT  
TTGCTTCCCAACCAGCCCCATACTCATTGTCTGAAGTAGATTCTGATACACAACCCAAAGCTCCTGGAATTGAT  
GACATAAAGACTCTAGAAGAAAAGCTGCGGTCTCTGTTCAAGTGAACACAGCTCATCTGGAGCTCAGCATGCCTCT  
GTCTCACTGGAGACCTCACTAGTCATAGAGAGCACTGTACACCAGGCATCCCAACTACTGCTGTGACCAAGC  
AAACTCCTGACTTCTACCACAAGTACTTGCTTACCACCAACCAATTTACCCTAGGAACAGTTGCTTTGCCAGTT  
ACACCAGTGGTCACACCTGGGCAAGTTTCTACCCAGTCAGCACTACTACATCAGGAGTGAAACCTGGAAGTGT  
CCCTCCAAGCCACCTCTAACTAAGGCTCCGGTGTGCCAGTGGTACTGAACTTCCAGCAGGTACTCTACCCAGC  
GAGCAGCTGCCACCTTTTCCAGGACCTTCTCTAACCCAGTCCAGCAACCTCTAGAGGATCTTGATGCTCAATTG  
AGAAGAACACTTAGTCCAGAGATGATCACAGTGAATCTGCGGTTGGTCCGTGTGTCATGGCGGCTCCAACAGCA  
ATCACAGAAGCAGGAACACAGCCTCAGAAGGGTGTCTCAAGTCAAAGAAGGCCCTGTCTAGCAACTAGTTCA  
GGAGCTGGTGTTTTTAAGATGGGACGATTTCAAGTTTCTGTTGCAGCAGACGGTGGCCAGAAAGAGGGTAAAAAT  
AAGTCAGAAGATGCAAAGTCTGTTCAATTTGAATCCAGCACCTCAGAGTCTCAGTGTATCAAGTAGTAGTCCA  
GAGAGTACCTTGGTGAAACCAGAGCCGAATGGCATAACCATCCCTGGTATCTCTTCAGATGTGCCAGAGAGTGCC  
CACAAAATACTGCCTCAGAGGCAAAGTCAGACACTGGGCAGCCTACCAAGGTTGGACGTTTTTCAGGTGACAACT  
ACAGCAAACAAAGTGGGTCGTTTCTGTATCAAAAAGTGAAGACAAGATCACTGACACAAAGAAAGAGGACCA  
GTGGCATCTCTCTCTTTTATGGATTGGGAACAAGCTGTTCTTCTGCTGTGATACCAAAGAAAGAGAAGCCTGAA  
CTGTCAAGCCCTTCACATCTAAATGGGCCGCTCTTGACCCGGAGGCCGCTTTTTTAAGTAGGGATGTGGATGAT  
GGTTCCGGTAGTCCACACTCGCCCCATCAGCTGAGCTCAAAGAGCCTTCTAGCCAGAATCTAAGTCAAAGCCTT  
AGTAATTCATTTAACTCCTCTTACATGAGTAGCGACAATGAGTCAGATATCGAAGATGAAGACTTAAAGTTAGAG  
CTGCGACGACTACGAGATAAACATCTCAAAGAGATTGAGGACCTGCAGAGTCGCCAGAAGCATGAAATTGAATCT  
TTGTATACCAAATACTGGGCAAGGTGCCCCCTGCTGTTATTATTTCCCCCAGCTGCTCCCCCTTCAGGGAGAAGACGA  
CGACCCACTAAAAGCAAAGGCAGCAAATCTAGTCGAAGCAGTTTCTTGGGGAATAAAAGCCCCCAGCTTTCAGGT  
AACCTGTCTGGTCAGAGTGCAGCTTCAGTCTTGCACCCCCAGCAGACCCTCCACCTCCTGGCAACATCCCAGAG  
TCCGGGCAGAAATCAGCTGTTACAGCCCCCTTAAGCCATCTCCCTCCAGTGACAACCTCTATTACGCCCTCACCAGT  
GATGGTGCCATTTCACTACCAAGCCTTTCTGCTCCAGGTCAAGGAACCAGCAGCACAAACACTGTTGGGGCAACA  
GTGAACAGCCAAAGCCGCCAAGCTCAGCCTCCTGCCATGACGTCCAGCAGGAAGGGCACATTCACAGATGACTTG  
CACAAGTTGGTAGACAATTGGGCCCCGAGATGCCATGAATCTCTCAGGCAGGAGAGGAAGCAAAGGGCACATGAAT  
TAGGAGGGCCCTGGAATGGCAAGGAAGTTCTCTGCACCTGGGCAACTGTGCATCTCCATGACCTCGAACCTGGGT  
GGCTCTGCCCCCATCTCTGCAGCATCAGCTACCTCTTAGGTCACTTCACCAAGTCTATGTGCCCCCAGCAGCAG  
TATGGCTTTCCAGCTACCCCATTTGGCGCTCAATGGAGTGGGACGGGTGGCCAGCACCACAGCCACTTGGCCAG  
TTCCAACCTGTGGGAACTGCCTCTTGCAGAATTTCAACATCAGCAATTTGCAGAAATCCATCAGCAACCCCCCA  
GGCTCCAACCTGCGGACCACTTAG

3719/6881  
**FIGURE 3430A**

CGGCGGCGGCGGTAGTGGCGGCGGCGGCGGTGCCCGGGCGGCAGCGGCAGCAGTAGCGGCAGCCCTGAGGACGGT  
GAGACGGCCGCGGCGGCGGCGGCGACAGCGCGGAAGTCGCGCGGGACCCAGAGCTTCCCCCTGTCGCTAGTGCTGAG  
GCTTTCGCCTTTCTACCCAGCTTCTTGCTCAGGCCCCGGGCTGGGCTGGGCAGGGCAACGCGCCCCCGGGCAGG  
GGCGGAGCTGTAGATATGGTGTAAGATACTTCTTCAAGATTGGACAGCTGGGGACCTTCTTCTGATTAACCTTAA  
ACCAACTGTAGCCATAGAGACACCTCACAAAGTTCCCATTTTGTGTTGTTGTTGTTGTTGATTTCGTCTCACAC  
CTTTCCTGACCTTGCAACCATGTATGGAAGTGCCCGCTCTGTTGGGAAGGTGGAGCCGAGCAGCCAGAGCCCTGG  
GCGTTCACCCAGGCTTCCACGTTCCCTCGCTGGGTCCCGTGAACCAACAGTACGGGAGGGAGTTTCGGGAAG  
CAGTGTGAGAGTGGCAGTGGGAAAACCTTCAATGGAAAATATACAATCTTAAATGCTGCCTATGCCACCTC  
TGGCCCTATGTATCTAAGTGACCATGAAAATGTGGGTTCAGAAACACCTAAAAGCACCATGACACTTGGCCGTTT  
TGGGGGACGTCTGCCTTACGGTGTTCGGATGACTGCTATGGGTAGTAGCCCCAATATAGCTAGCAGTGGGGTTGC  
TAGTGACACCATAGCATTGGAGAGCATCACCTCCCTCCTGTGAGTATGGCATCCACTGTACCTCACTCCCTTCG  
TCAGGCGAGAGATAACACAATCATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAGAAAATGATCTCTTGCG  
GAAGGATGTGAAGTAAAGGAGAGCAAATTGAGTTCTTCAATGAATAGCATCAAGACCTTCTGGAGCCCAGAGCT  
GAAGAAGAACGAGCCCTGAGAAAAGATGAAGCTTCCAAAATCACCATTGGAAGGAACAGTACAGAGTTGTACA  
GGAGGAAAACAGCACATGCAGATGACAATCAGGCTCTCCAGGATGAATTGCGGATCCAGAGGGACCTGAATCA  
GCTGTTTCAGCAGGATAGTAGCAGCAGGACTGGCGAACCTTGTGTAGCAGAGCTGACAGAGGAGAACTTTCAGAG  
GCTTCATGCTGAGCATGAGCGCAGGCCAAAGAGCTGTTTCTTCTTCGAAAGACATTGGAGGAAATGGAGCTGCG  
TATTGAGACTCAAAGCAGACCCTAAATGCTCGGGATGAATCCATTAAGAAGCTTCTGGAATGTTGCAGAGCAA  
AGGACTTTCTGCCAAGGCTACCGAGGAAGACCATGAGAGAACAAGACGACTGGCAGAGGCAGAGATGCACGTTCA  
TCACCTAGAAAGCCTTTTGGAGCAGAAGGAAAAGAGAACAGTATGTTGAGAGAGGAGATGCATCGAAGGTTTGA  
GAATGCTCCTGATTCTGCCAAAACAAAAGCTCTGCAAACTGTTATTGAGATGAAGGATTCAAAAATTTCTCTAT  
GGAGCGTGGGCTTCGAGACCTGGAAGAGGAAATTCAGATGCTGAAATCGAATGGTGCTTTGAGTACTGAGGAAAG  
GGAAGAAGAAATGAAGCAAATGGAAGTGTATCGGAGCCATTCTAAATTTATGAAAAATAAGATTGGCCAGGTGAA  
ACAGGAGCTGTCCAGAAAGGACACAGAACTACTCGCCCTGCAGACAAAGCTAGAAACACTCACAAACCAGTTCTC  
AGATAGTAAACAGCACATTGAAGTGTGGAAGGAGTCCTTGACTGCTAAGGAGCAGAGGGCTGCCATCCTGCAGAC  
TGAGGTGGATGCTCTCCGATTGCGTTTTGGAAGAGAAGGAAACCATGTTGAATAAAAAGACAAAACAAATTCAGGA  
TATGGCTGAAGAGAAGGGGACACAAGCTGGAGAGATACATGACCTCAAGGACATGTTGGATGTGAAGGAGCGGAA  
GGTTAATGTTCTTCAGAAGAAGATTGAAAATCTTCAAGAGCAGCTTAGAGACAAGGAAAAGCAGATGAGCAGCTT  
GAAAGAACGGGTCAAATCCTTGCAGGCTGACACCACCAACACTGACACTGCCTTGACAACTTTGGAGGAGGCCCT  
TGCAGAGAAAGAGCGGACAATTGAACGCTTAAAGGAGCAGAGGGACAGAGATGAGCGAGAGAAGCAAGAGGAAAT  
TGATAACTACAAAAAGATCTTAAAGACTTGAAGGAAAAAGTCAGCCTGTTGCAAGGCGACCTTTCAGAGAAAGA  
GGCTTCACTTTTGGATCTGAAAGAGCATGCTTCTTCTTGGCATCCTCAGGACTGAAAAAGGACTCACGGCTTAA  
GACACTAGAGATTGCTTTGGAGCAGAAGAAGGAGGAGTGTCTGAAAATGGAATCACAATTGAAAAAGGCACATGA  
GGCAGCATTTGAAGCCAGAGCCAGTCCAGAGATGAGTGACCGAATACAGCACTTGGAGAGAGAGATCACCAGGTA  
CAAAGATGAATCTAGCAAGGCCCAGGCAGAAGTTGATCGACTCTTAGAAATCTTGAAGGAGGTGGAAAATGAGAA  
GAATGACAAAGATAAGAAGATAGCTGAGTTGGAAAGTCTCACCTCAAGGCAAGTGAAAGACCAGAATAAGAAGGT  
AGCAAATCTGAAGCACAAAGGAACAGGTGGAAAAAAGAAGAGTGCACAAATGTTAGAGGAGGCGCGACGACGGGA  
GGACAATCTCAACGACAGCTCTCAGCAGCTACAGGTGGAGGAGTTACTGATGGCCATGGAGAAGGTAAAGCAGGA  
ACTAGAATCCATGAAAGCAAAGCTGTCTCCACCCAGCAGTCTCTGGCAGAAAAGGAACTCACTTGACTAATCT  
TCGGGCAGAGAGAAGGAAACACTTAGAGGAAGTTCTGGAGATGAAGCAAGAAGCTCTTCTGGCTGCCATTAGTGA  
AAAAGACGCCAATATAGCTCTCTTGGAGCTTTCGTCTCTAAGAAGAAGACCAAGAGGAAGTGGCTGCCCTGAA  
GCGGGAGAAGGATCGTCTGGTACAGCAGCTTAAGCAGCAGACGCCAAAATCGAATGAAGCTAATGGCCGACAATA  
CGAGGATGACCACCTTCAAATCCTCCCATTTCAAATCAAACAAATCACAAGCCCTCCCGAGACCAGGATGAGGAGGA  
GGGTATATGGGCATAGCCAATCAGAGGCTTAGTTCAGCCATTTTGTTCAGAACGATCATCCAGCCCTCTTAGAA  
CTTGACCAAAATAGAAGTAAATTAAAGTTGTACATTGGACACCTGACAACCCTCTGCCATGACCGAGACCCCTG  
ATCCTCCGTGGACTCACTCCACCAGCTTCTTATACTTGGACGATGACCAGGCGGCTTGGGAGAAATGAGCTGCAG  
AAGATGACCCGGGGCAGCTTCAGGATGAGTTAGAGAAAGGTGAACGGGACAATGCAGAACTGCAGGAGTTTGCC  
AACGCCATTCTTCAGCAGATAGCAGACCATTGTCCCGACATCCTAGAGCAAGTGGTCAACGCCCTGGAAGAGTCC

3720/6881  
**FIGURE 3430B**

TCTTGACCCTGCTTTATGGGGAAGCCTGAGGTAGTCAACCCAGGAGCCAAGAAAAGAGAACTACGAGGAACAGGT  
GCCCCGAACCTTCTTGGCACCAAACTACAACTTTCATCCCACTTGCTCACTTGAAGAAGTGTGATTCCAGCA  
CCGTTTCTACATCTGCCATCTTACTCTGCCTTTCTGCTTTGGATGTGGTCTCTACACTAACCTTCTTGATGTCCA  
GGGTAGATAAAGGGTCGAATCTCTCTGAAGAACTGCCACCTGGTCATCAGCAGTGGAGAAGTGTGGGAGCTGGTG  
GCTCTGCCCTGACAGAGAGCCATGGAGCAGAGGAGCCTCTCACCTCCTGTCTCTGACATGAGAATGAAACCAGG  
AATGGACTTGAGATTCAACAGGCTGAGAGGATGCCTCCAATGGACCAGAGAGCTGAGTGTTCTAATATCACAATA  
GGTGCTTTCTCCTAAAAGGGCAAAAAACAATCTCAAAAAGATTAGAAAAAGAGAAGGGGGGAAGGGAAGAGAAAA  
TCGACTCTCTTTTTTACTGTCTCTTCTGCTTACTTTCCACATGAGATGCTTTGTACCGGGGAGCTGTGAGCAGGC  
CTCACGATGGCTTGGGAGCACTCGTTCTCCCAAGGTCTGAGTCTTCATCCAGCCCTGCCTGTCTGTGCGAGCCTT  
CCTCACTCTGTTCTCGGCCAGTTAACAAGAAGATGGTGTGAGGTGTTCTCCACCAGTCTCTCCTGTTTGAGACT  
GTTGACGTTATCATACTGAGGTGTTAGATCAAATATCTCTAATTGAAGAACATGTGAGGTTGAAAGAGCACCAGC  
CAGGGCAACATAGCGTGACCTGTCTCTACAAAAAATTAAAAAGAGAACATACAAAGTTGACATATGAGACCCTG  
TTGTCCCCGCTGCAGCTTTGCCCCAGTAACAGATGCCCGTTGCTCTTGGGCTGGTTTCCCCTGAACACCTCCAA  
GAGGCTGCCTGCCTTGCCAGCACCCGTGTCTGAGCTCCTGCAGCCCAGTGGCTGCTGAAGTTGTGATCCCTCAC  
TCACCCTGCTAGCTTTGCCCTTGACTCGTCTTCTCTGAACCTCAGCCTCGTGCATTGCCTGGAACCTTCTTCTAG  
CATAAATGAAGGTTTTTCTCCTACACACATTCTTCTCGGTTATTTTATTTCAGAGAATATTTATGAAATGCCT  
ACTGTGTGCAAGTCATCCATCCTTGAAAAGGCCACTTCTCAGTGAGGGAGAGATGTAGTGGATTCTGTGAGACAT  
ACCTGCTGGAGTTGAAGCAGTAAATAGCATGTCCTTCCCCTCCCCGATCTTAAGGTGTGTTTTCTAGA

3721/6881  
**FIGURE 3431**

MYGSARSVGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGSSVGGGSGKTLSMENIQSLNAAAYATSGPMYLS  
DHENVGSETPKSTMTLGRSGGRLPYGVRMTAMGSSPNIASSGVASDTIAFGEHHLPPVSMAS TVPHSLRQARDNT  
IMDLQTQLKEVLRENDLLRKDVEVKESKLSSSMNSIKTFWSPELKKERALRKDEASKITIWKEQYRVVQEENQHM  
QMTIQALQDELRIQRDLNQLFQQDSSSRTGEPV AELTEENFQRLHAEHERQAKELFLLRKTLEEMELRIETQKQ  
TLNARDES IKKLEMLQSKGLSAKATEEDHERTRRLAEAE MHVHHLESLEQKEKENSMLREEMHRRFENAPDSA  
KTKALQTVIEMKDSKISSMERGLRDLEEEIQMLKSNGALSTEEREEEMKQMEVYRSHSKFMKNKIGQVKQELSRK  
DTELLALQTKLETLTNQFSDSKQHIEVLKESLTAKEQRAAILQTEVDALRLRLEEKETMLNKKTKQIQDMAEEKG  
TQAGEIHDLDKMLDVKERKVNVLQKKIENLQEQLRDKEKQMSSLKERVKSLQADTTNTDTALTLEELAEKERT  
IERLKEQRDRDEREKQEEIDNYKKDLKDLKEKVSLLQGD LSEKEASLLDLKEHASSLASSGLKKDSRLKTTLEIAL  
EQKKEECLKMESQLKKAHEAALEARASPEMSDRIQHLE REITRYKDESSKAQAEVDRLEILKEVENEKNDKDKK  
IAELESLSRQVKDQNKKVANLKHKEQVEKKKSAQMLEEARRREDNLNDSSQQLQVEELLMAMEKVKQELESMKA  
KLSSTQQSLAEKETHLTNLRAERRKHLEEVLEMKQEALLAAISEKDANIALLELSSSKKKTQEEVAALKREKDRI  
VQQLKQQTQNRMKLMADNYEDDHFKSSH SNQTNHKPSPDQDEEEGIWA

3722/6881  
**FIGURE 3432**

TATTCTTCCAAATGGAACTGCTAATTTTTGAAGCAGAAGGTTGACAGCTTCAGTAAGATCTCAAGAGAGCGAGA  
AGACTGGAATCAGGGAACCCCTACTCTGGAACTGTCTAGTCCCAGGGCAGTGGGGAGGGCTGAGGCCGACCATGCC  
CAGCCTGCTGCTGCTGCTTACGGCTGCTCTGCTGTCCAGCTGGGCTCAGCTTCTGACAGACGCCAACTCCTGGTG  
GTCATTAGCTTTGAACCCGGTGCAGAGACCCGAGATGTTTATCATCGGTGCCAGCCCGTGTGCAGTCAGCTTCC  
CGGGCTCTCCCTGGCCAGAGGAAGCTGTGCCAATTGTACCAGGAGCACATGGCCTACATAGGGGAGGGAGCCAA  
GACTGGCATCAAGGAATGCCAGCACCAGTTCCGGCAGCGCGGTGGAATTGCAGCACAGCGGACAACGCATCTGT  
CTTTGGGAGAGTCATGCAGATAGGCAGCCGAGAGACCGCTTACCCACGCGGTGAGCGCCGCGGGCGTGGTCAA  
CGCCATCAGCCGGGCCCTGCCGCGAGGGCGAGCTCTCCACCTGCGGCTGCAGCCGGACGGCGCGGCCCAAGGACCT  
GCCCCGGGACTGGCTGTGGGGCGGCTGTGGGGACAACGTGGAGTACGGCTACCGCTTCGCCAAGGAGTTTGTGGA  
TGCCCCGGGAGCGAGAGAAGAACTTTGCCAAAGGATCAGAGGAGCAGGGCCGGGTGCTCATGAACCTGCAAAACAA  
CGAGGCCGGTCGAGGGCTGTGTATAAGATGGCAGACGTAGCCTGCAAATGCCACGGCGTCTCGGGGTCTGTCAG  
CCTCAAGACCTGCTGGCTGCAGCTGGCCGAGTTCCGCAAGGTGCGGGACCGGTGAAGGAGAAGTACGACAGCGC  
GGCCGCCATGCGCGTACCCGCAAGGGCCGGCTGGAGCTGGTCAACAGCCGCTTACCCAGCCCAACCCGGAGGA  
CCTGGTCTATGTGGACCCAGCCCCGACTACTGCCTGCGCAACGAGAGCACGGGCTCCCTGGGCACGCAGGGCCG  
CCTCTGCAACAAGACCTCGGAGGGCATGGATGGCTGTGAGCTCATGTGCTGCGGGCGTGGCTACAACCAAGTTCAA  
GAGCGTGCAGGTGGAGCGCTGCCACTGCAAGTTCCACTGGTGTGCTTTCGTCAGGTGTAAGAAGTGCACGGAGAT  
CGTGGACCAGTACATCTGTAAATAGCCCGAGGGCCCTGCTCCCGCCCCCTGCACTCTGCCTCACAAGGTCTA  
TATTATATAAATCTATATAAATCTATTTTATATTTGTATAAGTAAATGGGTGGGTGCTATACAATGGAAAGATGA  
AAATGGAAAGGAAGAGCTTATTTAAGAGACGCTGGAGATCTCTGAGGAGTGGACTTTGCTGGTTCTCTCCTCTTG  
GTGGGTGGGAGACAGGGCTTTTCTCTCCCTCTGGCGAGGACTCTCAGGATGTAGGGACTTGGAAATATTTACTG  
TCTGTCCACCACGGCCTGGAGGAGGGAGGTTGTGGTTGGATGGAGGAGATGATCTTGTCTGGAAGTCTAGAGTCT  
TTGTTGGTTAGAGGACTGCCGTGTGATCCTGGCCACTAGGCCAAGAGGCCCTATGAAGGTGGCGGGAACTCAGCTT  
CAACCTCGATGTCTTCAGGGTCTTGTCCAGAAATGTAGATGGGTTCGTAAGAGGCCTGGTGTCTCTTACTCTTT  
CATCCACGTGCACTTGTGCGGCATCTGCAGTTTACAGGAACGGCTCCTTCCCTAAAATGAGAAGTCCAAGGTCAT  
CTCTGGCCCACTGACCACAGAGAGATCTGCACCTCCCGGACTTCAGGCCTGCCTTTCAGCGAGAATTCTTCATC  
CTCCACGGTTCAGTCTCTTACCTGAAGAGGAAAGGGGGCCATTGACCTGACATGTCAGGAAAGCCCTAAACT  
GAATGTTTGGCCTGGGCTGCAGAAGCCAGGGTGCATGACCAGGCTGCGTGGACGTTATACTGTCTTCCCCACC  
CCCGGGGAGGGGAAGCTTGAGCTGCTGCTGTCACTCCTCCACCGAGGGAGGCCTCACAACCACAGGACGCTGCA  
ACGGGTACAGGCTGGCGGGCCCGCGTGCTCATCATCTCTGCCCCAGGTGTACGGTTTCTCTGACATTAAATGC  
CCTTCATGG

3723/6881  
**FIGURE 3433**

MPSLLLLFTAALLSSWAQLLTDANSWWSLALNPVQRPEMFIIGAQPVCSQLPGLSPGQRKLCQLYQEHMAYIGEG  
AKTGIKECQHQRQRRWNCSTADNASVFGRVMQIGSRETAFTHAVSAAGVVNAISRACREGELSTCGCSRTARPK  
DLPRDWLWGGCGDNVEYGYRFAKEFVDAREREKNFAKGSEEQGRVLMNLQNEAGRRAVYKMADVACKCHGVSGS  
CSLKTCWLQLAEFRKVGDLKEKYDSAAAMRVTRKGRLELVNSRFTQPTPEDLVYVDPSPDYCLRNESTGSLGTQ  
GRLCNKTSEGMDGCELMCCGRGYNQFKSVQVERCHCKFWCCFVRCKKCTEIVDQYICK



3724/6881  
**FIGURE 3434**

GACCATTAGCAGGCACCCAGGCCTGTCTTTGGCTCGGAAACGGTGGCCCCCAATGTAGCCTAGTTTGAACCTAGG  
AACTGCAGGACCAGAGAGATTCCACTGGAGCCTGATGGACGGGTGACAGAGGGAACCCTACTCTGGAAACTGTCA  
GTCCCAGGGCACTGGGGAGGGCTGAGGCCGACCATGCCCAGCCTGCTGCTGCTGTTACGGCTGCTCTGCTGTCC  
AGCTGGGCTCAGCTTCTGACAGACGCCAACTCCTGGTGGTCATTAGCTTTGAACCCGGTGCAGAGACCCGAGATG  
TTTATCATCGGTGCCAGCCCGTGTGCAGTCAGCTTCCCGGGCTCTCCCCTGGCCAGAGGAAGCTGTGCCAATTG  
TACCAGGAGCACATGGCCTACATAGGGGAGGGAGCCAAGACTGGCATCAAGGAATGCCAGCACCAGTTCCGGCAG  
CGGCGGTGGAATTGCAGCACAGCGGACAACGCATCTGTCTTTGGGAGAGTCATGCAGATAGGCAGCCGAGAGACC  
GCCTTCACCCACGCGGTGAGCGCCGCGGGCGTGGTCAACGCCATCAGCCGGGCTGCCGCGAGGGCGAGCTCTCC  
ACCTGCGGCTGCAGCCGGACGGCGCGGGCCCAAGGACCTGCCCCGGGACTGGCTGTGGGGCGGCTGTGGGGACAAC  
GTGGAGTAGCGCTACCGCTTCGCCAAGGAGTTTGTGGATGCCCGGGAGCGAGAGAAGAACTTTGCCAAAGGATCA  
GAGGAGCAGGGCCGGGTGCTCATGAACCTGCAAAACAACGAGGCCGGTTCGAGGGCTGTGTATAAGATGGCAGAC  
GTAGCCTGCAAAATGCCACGGCGTCTCGGGTCTGACGCCTCAAGACCTGCTGGCTGCAGCTGGCCGAGTTCCGC  
AAGGTCGGGGACCGGTGAAGGAGAAGTACGACAGCGCGGCCGCCATGCGCGTCACCCGCAAGGGCCGGCTGGAG  
CTGGTCAACAGCCGCTTACCCAGCCCACCCCGAGGACCTGGTCTATGTGGACCCAGCCCCGACTACTGCCTG  
CGCAACGAGAGCACGGGCTCCCTGGGCACGCAGGGCCGCCTCTGCAACAAGACCTCGGAGGGCATGGATGGCTGT  
GAGCTCATGTGCTGCGGGCGTGGCTACAACCAGTTCAAGAGCGTGCAGGTGGAGCGCTGCCACTGCAAGTTCCAC  
TGGTGTGCTTCGTAGGTGTAAGAAGTGCACGAGATCGTGGACAGTACATCTGTAAATTAGCCCGGAGGGCCT  
GCTCCCGCCCCCTGCACCTGCCTCACAAGGTCTATATTATATAAATCTATATAAATCTATTTTATATTTGT  
ATAAGTAAATGGGTGGGTGCTATACAATGGAAAGATGAAAATGGAAGGAAGAGCTTATTTAAGAGACGCTGGAG  
ATCTCTGAGGAGTGGACTTTGCTGGTTCTCTCCTCTTGGTGGGTGGGAGACAGGGCTTTTTCTCTCCCTCTGGCG  
AGGACTCTCAGGATGTAGGGACTTGGAATATTTACTGTCTGTCCACCACGGCCTGGAGGAGGAGGTTGTGGTT  
GGATGGAGGAGATGATCTTGTCTGGAAGTCTAGAGTCTTTGTGGTTAGAGGACTGCCTGTGATCCTGGCCACTA  
GGCCAAGAGGCCCTATGAAGGTGGCGGGAACCTCAGCTTCAACCTCGATGTCTTCAGGGTCTTGTCCAGAATGTAG  
ATGGGTTCCGTAAGAGGCCTGGTGTCTCTTACTCTTTTCATCCACGTGCACTTGTGCGGCATCTGCAGTTTACAG  
GAACGGCTCCTTCCCTAAATGAGAAGTCCAAGTTCATCTCTGCCCCAGTGACCACAGAGAGATCTGCACCTCCC  
GGACTTCAGGCCTGCCTTTCCAGCGAGAATTCTTCATCCTCCACGGTTCACTAGCTCCTACCTGAAGAGGAAAGG  
GGGCCATTTGACCTGACATGTCAGGAAAGCCCTAAACTGAATGTTTGCGCCTGGGCTGCAGAAGCCAGGGTGCAT  
GACCAGGCTGCGTGGACGTTTACTGTCTTCCCCACCCCCGGGGAGGGGAAGCTTGAGCTGCTGTCTCACTCC  
TCCACCGAGGGAGGCCTCACAAACCACAGGACGCTGCAACGGGTGAGGCTGGCGGGCCCGGCGTGTCTCATCT  
CTGCCCCAGGTGTACGGTTTCTCTCTGACATTAAATGCCCTTCATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
A

3725/6881  
**FIGURE 3435**

MPSLLLLFTAALLSSWAQLLTDANSWWSLALNPVQRPMEFIIGAQPVCSQLPGLSPGQRKLCQLYQEHMAYIGEG  
AKTGIKECQHQRQRRWNCSTADNASVFGRVMQIGSRETAFTHAVSAAGVVNAISRACREGELSTCGCSRTARPK  
DLPRDWLWGGCGDNVEYGYRFAKEFVDAREKKNFAKGSEEQGRVLMNLQNEAGRRAVYKMADVACKCHGVSGS  
CSLKTCWLQLAEFRKVGDLKEKYDSAAAMRVTRKGRLELVNSRFTQPTPEDLVYVDPSPDYCLRNESTGSLGTQ  
GRLCNKTSEGMDGCELMCCGRGYNQFKSVQVERCHCKFWCCFVRCKKCTEIVDQYICK

3726/6881  
**FIGURE 3436**

GTATGGGAAGGTGGTGGCGAGTGATCCCTCATGATGTACTACCAGACTGGCTCAAGGATAATGACTTCCTCTTG  
CATGGACACCGGCTCTATGCCTTCTTTCCGGGCTGTTTTAAGAGCATTTCAGAATACACACAGAAACAGGC  
AACATTTGGACACATCTCTTAGGTTGTGTATTCTTCTGTGCCTGGGGATCTTTTATATGTTTTCGCCCAAATATC  
TCCTTTGTGGCCCTCTGCAAGAGAAGGTGGTCTTTGGATTATTTTCTTAGGAGCCATTCTCTGCCCTTCTTTT  
TCATGGCTCTTCCACACAGTCTACTGCCACTCAGAGGGGCTCTCTGGCTCTTCTCTAACTGGATTACTCTGGT  
ATTGCTCTTCTGATTATGGGAAGTTTTGTTCTTGGCTTTATTATTCTTTCTACTGTAATCCACAACCTTGCTTC  
ATCTACTTGATTGTCTATCTGTGTGCTGGGCATTGCAGCCATTATAGTCTCCCAGTGGGACATGTTTGCCACCCCT  
CAGTATCGGGGAGTAAGAGCAGGAGTGTTCCTGGGCTAGGCCTGAGTGGAATCATTCTACCTTGCACTATGTC  
ATCTCGGAGGGGTTCTTAAGGCCGCCACCATAGGGCAGATAGGCTGGTTGATGCTGATGGCCAGCCTCTACATC  
ACAGGAGCTGCCCTGTATGCTGCCCGGATCCCCGAACGCTTTTTCCCTGGCAAATGTGACATCTGGTTTCACTCT  
CATCAGCTGTTTCATATCTTTGTGGTTGCTGGAGCTTTGTTCACTTCCATGGTGTCTCAAACCTCCAGGAGTTT  
CGTTTCATGATCGGCGGGGCTGCAGTGAAGAGGATGCACTGTGATACCTACCAGTCTCCAGGGACTATGACCCCT  
AAACCAGGGCCTGCGGCACTTGCGGGCTCCCTGCTGGCTACTGATGCCAGTACCAGAGGAGCCCCAAAACCTTG  
ACAGCCTCGTGGGCTTTGTGACGGCCAGTGGCTCTGCGTGGTACATGACTGAGAAGAGAAAAACAAAATAAAT  
CATACCTCAAAGGATGGAGTGCATCAATTGGGAGAAAAGGAGACATAGCCCAAACCTGGCTTATTCTTGGGATC  
TACTGATTGCGGGCTCTGCAAGACCCTTGGCAAACCTGGCTCTGATCCATATCATATTTATTGTAGAAGATGGC  
GAAACAGTTTAGCTGGTGGTTCTTTCTTCTCCCTTTCTCTCTCTATGACAATAATACAAACCAATTTAAGTGA  
ACATTTATATCCGATAAGGGGTGGGAGTGTGATTTTAAATGCTCTTTTGGGAGAACAAAGAAATTAATGTAAATA  
AGATTTCTAACTGTTTAAATAAGACTTTATATAAATGTTTAAACATAGGGGTAAGGGAGGGAGGAGAATTTT  
GTATAGAATGAAACATGCAAGTACCACACACTGTTTGAATTTGCACAAAAGTGACTGTAGGATCAGGTGATAG  
CCCCGGAATGTACAGTGTCTTGGTGCACCAAGATGCCTTCTAAAGGCTGACATACCTTGGACCCTAATGGGGCAG  
AGAGTATAGCCCTAGCCAGTGGTGACATGACCACTCCCTTTGGGAGGCCTGAGGTAGAGGGGAGTGGTATGTGT  
TTTCTCAGTGAAGCAGCACATGAGTGGGTGACAGGATGTTAGATAAAGGCTCTAGTTAGGGTGTCAATTGTCAAT  
TGAGAGACTGACACACTCTAGCAGCTGGTAAAGGGGTGCTGGAGGCCATGGAGGAGCTCTAGAAACATTAGCAT  
GGGCTGATCTGATTACTTCTGGCATCCGCTCACTTTTATGGGAAGTCTTATTAGAGGGATGGGACAGTTTTCC  
ATATCCTTGCTGTGGAGCTCTGGAACACTCTCTAAATTTCCCTCTATTAAAAATCACTGCCCTAACTACACTTCC  
TCCTTGAGGGAATAGAAATGGACCTTTCTCTGACATAGTTCTTGGCATGGGAGCCAGCCACAAATGAGATTCTGA  
CGTGTCCAGGTTTCTCCTGAGCTCATCTACATAGATTGGTAGACCTTCTTTGGATTAGGAAAGATGAGTTTTA  
CCTCTGGTACACTGTCTTGGTAAGCCTGGATGTGACAGACACCTCGGCTCTCCTTGAATAAGAAAGCCAGCAGAA  
CTCTTAAAGCCAGTTGTAGTACGGAGTTGTGACACTCACTGAACCTCACTTTACAGGGATAAGAGTGGTGTGGC  
ATTTTAAATACAATGGTATGTTATTGCCAGGGAGTGAGGTACAAGACGATGGCTCATGTACAGGCCCTACCTGAT  
ACGGTGTGACAGAAAGTGGTGGGAAAGGATCTGGTTTCATGGAATTTCTGATCTTGGCCCATAGGTGAACCACCAA  
AATAGTGCTCGAGTCTTAGGTTACTGTCTATCAAAGACTTGGGATGACTCCATTATATCCTGGGGTTGTGGGTATT  
AGAATAAATATGGAGGTCTGAGCATGGGGACTGGCGTCTCAGTAGGTGTTTGGGAATATGGGAAGGGTCTCC  
TATTTATTCAATAGAGTTTTCTCAGTTATTTTCTCCCTTGCCCTTGCAATCTCCAGCAAAAGGTGGGATCTAGG  
AAGAAAGAATCCAGTGTAGAAGTTGAGAAGAAGTTGAACGTTTTGGTTCTGGATAAGGTCACTGTCTAGGTGCT  
AGGTGGACCGAGCAAAAGACTCAGTGGATGAACCTGGTGCAGTGCCTGACAGAATAAAGAACAGTATTAATCCCTT  
TGAGAAAGCATAGTCCAGCAGGACAGTGGCCATTGGACAGAAGCCCACTTAGTTTCTTGGGAGCAACAGCAGT  
ATCAGAAGCCAGACTTGCTCTTCGGTTCATGCACCTTTGGGATACAGCGTATAGGTGCAGCCCTGTACAAACACCAA  
CAGAAGTAGCAGCCTCTGGGTGCAGTACCCACACCCCAAGCTGGAAGGATCTGGTTCAACATAGCACAAACCC  
TTAGGAAAAATGAAATTAACATCACTGATGTGTAATCCAGTAAATCTCCCTTTTTCGGGTGTGTATGTGGGCAT  
GTGCCCATTCTATGTGTGTGTCTACGTGCAGCTCACTACCAACAGCCTCATGTGCACTTGACCTGACAGTGCTC  
GCTGAGAAGTCTCACCAGGTTGGCGCTGAATGCCTTACTCTCAGCAGTCAGAGGCTTGCTTGCTCTGTGCAGAT  
TTTTAATTTTCTTTTTTGGCCCTAGGCTGGTTGGGACCTCTACAGCTTCACTTTTACCATTAAATAGTGGCCT  
TTTTCAGTATTTTCCCTCTTCCCTTTATAAATTATGCTAAAGCCACAAAGCACATTTTGGGGATCATAGAAGG  
TTGGGGTTCCAGAAAGGCATCTGTGTGATGGTTCCATTGATGTGGGATTTCCCTACTTGCTGTATTCTCAGTTTC  
TAATAAAAAGAACCAAATG

3727/6881

## FIGURE 3437

TGCGAGGCAGCTCGCTCGTTCTGCGATCTATTGAGAGTGGCTTCCAAGAGCCCCGTGCCTATGTCTGGGAGGGAG  
GGAAGATGGCAGCCGTGGCGGCAGGCGGCCTGGTGGGAAAGGGCGCGACATCAGCCTAGCGGCCCTGCAGCGCC  
ACGACCCCTATATCAACCGCATCGTGGACGTGGCCAGCCAGGTGGCTCTGTACACCTTCGGCCATCGGGCCAACG  
AGTGGGAGAAAACCTGATGTGGAAGGAACCTTATTTGTTTATACAAGGTCTGCTTCTCCAAAGCATGGATTACCA  
TTATGAATAGGCTGAGCATGGAAAATAGGACAGAACCTATTACTAAAGACTTGGATTTCCAACCTCCAGGACCCCT  
TCCTTCTCTACAGAAATGCCAGATTGTCCATCTATGGAATTTGGTTTTATGATAAGGAAGAATGCCAAAGAATTG  
CAGAGCTTATGAAAAACCTAACTCAGTATGAACAGTTGAAAGCCCATCAGGGAACCTGGAGCAGGAATTTCCCCAG  
TGATCCTCAATTCAGGAGAGGGCAAAGAAGTAGACATTTTACGAATGCTCATCAAGGCCAAAGACGAATACACAA  
AGTGTAACCTGTTCTGAGCCAAAAAAGATAACCAGTTCTCTGCCATCTATGACAATCCAAATCTCATCAAAC  
CAATTCCAGTGAAACCCAGTGAAACCAGCAACAGCGTATACCTCAGCCCAACCAGACCTTAGACCTGAACCCC  
AACACTTATCCTTGACAGCTCTGTTTGGGAAGCAGGACAAAGCTACATGTCAGGAAACTGTGGAGCCTCCGCAGA  
CTCTCCACCAGCAGCAGCAGCAGCAGCAGCAAGAGAAGCTTCCAATTAGGCAGGGGGTGTACGCTCCC  
TGTCCTATGAGGAACCCAGAAGACACTACCCCCATTGAGAAGCAGCTCTGTCCAGCCATTGAGAACTCATGG  
TCAGGAGCGCAGACCTCCACCCATTGTGAGAGCTGCCTGAAAACCGGCCTTGTGAAAATGGCAGTACCCATTCTG  
CGGGAGAAATTTTTTACAGGACCTGTCCAGCCAGGGTCTCCTCACAACATTGGAACCTCTCGTGGTGTACAAAATG  
CTTCCAGAACTCAGAACCTGTTGAGAAAACCTCAGAGTACCCAGGGGCAGCAAACAAGTGTGACCCTAGTACAC  
CAGCACCTGCCAGCTCAGCTGCCCTGAACCGCAGCAGAGCTCCCACTTCTGTACCCCTGTGGCTCCAGGAAAGG  
GTCTGGCTCAGCCACCACAGGCCTATTTCAATGGCTCCCTCCACCTCAGACAGTAGGACATCAGGCTCATGGAA  
GAGAACAGTCCACACTCCCAAGACAAACACTCCCCATCTCTGGTAGTCAGACTGGCAGCTCTGGAGTGATCTCCC  
CTCAAGAGTTACTGAAGAAGCTTCAGATTGTACAGCAGGAGCAGCAGCTGCATGCCTCTAACCGGCCAGCCTTGG  
CCGCTAAGTTTCTGTGCTCGCTCAGAGCTCTGGAACAGGGAAACCCCTTGAATCCTGGATCAACAAGACACCCA  
ACACAGAACAGCAGACTCCTCTTTTCCAGGTCTCTCACCTCAGCGCATCCCTGCTACAGCAGCTCCGTCTCTGC  
TTATGTCCCCCATGGTGTTCGCACAACCCACCTCCGTCCCGCCAAAGGAAAGGGAGAGCGGCCTCTTGCTGTGG  
GAGGCCAGGAGCCACCTGCTGCTGCCACCAGCCTCCTCCTGCCCATACAGAGCCCGAGCCCTCCGTGATACCA  
GCAGCCCACTACCAAGCTCCAGCTCCAGGAGGCACTGCTGTACCTCATTGAGAATGATGACAACCTCTTAAATA  
TAATCTATGAAGCCTATCTCTTCAGCATGACTCAAGCAGCCATGAAAAAGACTATGTGACAGCAAGGCCTTTTAA  
AACTGATTTTCAAGGTCCTTCTAGAACTCCGGCACAAGGTTCTTTTATGTTGAGTGTGTTTCTTCAATGTTTC  
TGCCTTTTTTAAAAAAAAGTATGTGTAATATGAAGTAAATGTTTCAGACTTTTTTTTAT

3728/6881  
**FIGURE 3438**

MAAVAAGGLVGKGRDISLAALQRHDPYINRIVDVASQVALYTFGHRANEWEKTDVEGTLFVYTRSASPKHGFTIM  
NRLSMENRTEPITKDLDLQDPFLLYRNARLSIYGIWFYDKEECQRIAEMLMKNLTQYEQLKAHQGTGAGISPI  
LNSGEGKEVDILRMLIKAKDEYTKCKTCSEPKKITSSSAIYDNPNIKPIPVKPSNQQRIPQPNQTLDEPQH  
LSLTALFGKQDKATCQETVEPPQTLHQQQQQQQQQEKLP IRQGVVRSLSYEPRRHSPPIEKQLCPAIQKLMVR  
SADLHPLSEL PENRPCENGSTHSAGEFFTGPVQPGSPHNIGTSRGVQNASRTQNLFEKLQSTPGAANKCDPSTPA  
PASSAALNRSRAPTSVTPVAPGKGLAQPPQAYFNGSLPPQTVGHQAHGREQSTLPRQTLPISGSQTGSSGVISPQ  
ELLKKLQIVQQEQQLHASNRPALAAKFPVLAQSSGTGKPLESWINKTPNTEQQTPLFQVISQRIIPATAAPSLLM  
SPMVFAQPTSVPPKERESGLLPVGGQEPPAAATSLLLPIQSPEPSVITSSPLTKLQLEALLYLIQNDDNFLNII  
YEAYLFSMTQAAMKKT

3729/6881  
**FIGURE 3439**

GCCGCGTGACAGAGGTGCTCAAGCCTCCTCGCGGTCCGCAGTCAGTGCCGCGCGCGCCGGCCTCCCGCACGCCCCG  
CAGGTAGCGCCCCCGCCCGCGGCCAGAGTGCGCTCGCGCCGGCACCAGCTCCCGGATAAACGGCGCGCCGCGCG  
GAGATGACAGCCGAGGAGATGAAGGCGACCGAGAGCGGGCGCAGTCGGCGCCGCTGCCCATGGAGGGAGTGGAC  
ATCAGCCCCAAACAGGACGAAGGCGTGCTGAAGGTCATCAAGAGAGAGGGGCACAGGTACAGAGATGCCCATGATT  
GGGGACCGAGTCTTTGTCCACTACACTGGCTGGCTATTAGATGGCACAAAGTTTGACTCCAGTCTGGATCGCAAG  
GACAAATTCTCCTTTGACCTGGGAAAAGGGGAGGTCATCAAGGCTTGGGACATTGCCATAGCCACCATGAAGGTG  
GGGGAGGTGTGCCACATCACCTGCAAACCAGAAATATGCCTACGGTTCAGCAGGCAGTCTCTCAAAGATTCCCCC  
AATGCCACGCTTGATTGAGGTGGAGTTGTTTGAAGTTTAAAGGAGAAGATCTGACGGAAGAGGAAGATGGCGGA  
ATCATTTCGAGAATACAGACTCGCGGTGAAGGCTATGCTAAGCCCAATGAGGGTGCTATCGTGGAGGTTGCACTG  
GAAGGGTACTACAAGGACAAGCTCTTTGACCAGCGGGAGCTCCGCTTTGAGATTGGCGAGGGGGAGAACCTGGAT  
CTGCCTTATGGTCTGGAGAGGGCCATTACGCGCATGGAGAAAGGAGAACATTCCATCGTGTACCTCAAGCCCAGC  
TATGCTTTTGGCAGTGTTGGGAAGGAAAAGTTCCAAATCCCACCAAATGCTGAGCTGAAATATGAATTACACCTC  
AAGAGTTTTGAAAAGGCCAAGGAGTCTTGGGAGATGAATTCAGAAGAGAAGCTGGAACAGAGCACCATAGTGAAA  
GAGCGGGGCTGTGTACTTCAAGGAAGGTAATAACAAGCAAGCTTTACTACAGTATAAGAAGATCGTGTCTTGG  
CTGGAATATGAGTCTAGTTTTTCCAATGAGGAAGCACAGAAAGCACAGGCCCTTCGACTGGCCTCTCACCTCAAC  
CTGGCCATGTGTCTGTAAGTACAGGCCCTTCTCTGCTGCCATTGAAAGCTGTAACAAGGCCCTAGAACTGGAC  
AGCAACAACGAGAAGGGCCTCTTCCGCCGGGGAGAGGCCACCTGGCCGTGAATGACTTTGAACTGGCAGCGGCT  
GATTTCCAGAAGGTCTGACGCTCTACCCCAACAACAAAGCCGCCAAGACCCAGCTGGCTGTGTGCCAGCAGCGG  
ATCCGAAGGCAGCTTGCCCGGGAGAAGAAGCTCTATGCCAATATGTTTGAAGGCTGGCTGAGGAGGAGAACAAG  
GCCAAGGCAGAGGCTTCTCAGGAGACCATCCCACTGACACAGAGATGAAGGAGGAGCAGAAGAGCAACACGGCA  
GGGAGCCAGTCTCAGGTGGAGACAGAAGCATAGCCCCCTCTCCACCAGCCCTACTCCTGCGCTGCCTGCCCCCCA  
GTCTCCCCACTCCACCCTGTAGTTTTGTAAAACTGAAGAATTTTGAAGTGAATTAGACCTTTATTTTTCTATCT  
GGTTGGATGGTGGCTTTAGGGGAAGGGGAAAGGTGTAGGCTGGGGGATTGAGGTGGGGAATCATTTTAGCTGGT  
GTCAGCCCCCTCTCCCTTCTCATTGCACATGAACATATGTCCATCCATATATATTATCAGAATGTTAATTTA  
TTTTGCTCCCTCTGTAGGTCCATTTTCTAAGGGTAGAAGAGGCAAGTGGTAGGGATGAGGTCTGATAAGAACC  
AGGGTGGAGAGGGAGACTCCTGGGCAGCCGTTTTCTCATCCTTTCCCTCTCCCAGTCCATTTCCAAATGTGGCC  
TCCATGTGGGTGCTAGGGACATGGGAAAAACCACTGCTATGCCATTTCTTCTCTGTTCCCTTCTCACCCCCG  
ACGGTGTGGCTGATGATGTCTTCTGGTGTGATGGTACCACCCCTGTTCCCTGTTCTGGTATTTCCCTGTGACG  
TTTCCCTCTCGGCCAGGTGTGTGCCAAATCCCTCAGCCTCTTCTCTGCAGTTGCTGAAGGTCCAGGCTTG  
CCTCAAGTTCCATGCTTGAGCAATAAAGTGGAAACAATAAAACCTGGGTGTCAGACAAAAAAAAAAAAAAAAA

A

3730/6881

**FIGURE 3440**

MTAEEMKATESGAQSAPLPMEGVDISPQDEGVLEKVIKREGTGTEMPMIGDRVFVHYTGWLLDGTKFDSSSLDRKD  
KFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGI  
IRRIQTRGEGYAKPNEGAIIVEVALEGGYKDKLFDQRELRFEGEGENLDLPYGLERAIQRMKEGHSIVYLKPSY  
AFGSVGKEKFQIPPNAELKYELHLKSFEKAKESWEMNSEEKLEQSTIVKERGT VYFKEGKYKQALLQYKKIVSWL  
EYESSFSNEEAQKAQALRLASHNLAMCHLKLQAFSAIESCNKALELDSNNEKGLFRERGEAHLAVNDFELARAD  
FQKVLQLYPNNKAAKTQLAVCQQRIRRLAREKKLYANMFERLAEENKAKAEASSGDHPTDTEMKEEQKSNTAG  
SQSQVETEA

3731/6881  
**FIGURE 3441**

GCGGAGCTGCCAGCCGCGGGCCGCCCTCGTTGGTGGCGGTGCCAGGGCTCGCCACCCGGGCGGTGGAACACGGGC  
CAGGACGGGGAGCGACTCCCCACAGTGCTTTCTTGGCCCTTCGGCCCTTGTGCGACGCAGGCGCGACAGGGTTCC  
GGCGCCCTCCCGGGGTCCCCTGCCGACGCGGGGACCCAGCGAGGTCCCCACTCGCCGCGCGGGCGCCCTCCCTC  
GGCCCCGGGGAGGCCGGGCGGGGGCATGCCGGGAGCTGTAGTCCCCTCCCCCTCCGCCGCTCCCGGAGCCAG  
GGCTGCGGGGTGTGGGGCGGGGAGGAGGCGCTCTGCTGTGGAGCCTGCCGCCGAGTGACCGCTCGACTACAAATA  
GCCTGGGGAGCTGCGGGGAGGGCATCTTGACCTGGGCCAGGACAACCTGCCTTGGGTCCGAGCAGGTTCCAGGGA  
GAATCAGAGATGGTGAATTCCAGCCTGCGTCTTATGCCTTCTCCCCATCCGCTGCTGCGTCTCATCCTGGCTT  
CCCACCGCTGAGCTCCGCGTGTGCGGCACCCACCTCAGGGGGCCTTTACCTGGTCCAGAAGTGCATCTGTCTTG  
CACCAGATTATTGGGGACCTCAAGCGTCTGCTCCAGCGGCTCTCCTGTGGCATGTGACTTCCCCTTCTCGCTCCA  
GCGTCTGCCGTTTTCTACGAGATTGTTATTCCAGGTCATCAAGAGAGAGGGCACAGGTACAGAGATGCCCATGA  
TTGGGGACCGAGTCTTTGTCCA



3732/6881  
**FIGURE 3442**

GTGCGACGGGGTTTCAGGGAATATTTACTGGGCCTCTCCGCTCCCTCTGCTCTTGGAGGTGCCATGAGGTTCAGT  
TAGCTACGTGCAGCGCGTGGCGCTGGAGTTCAGCGGGAGCCTCTTCCCGCACGCAATCTGCCTCGGAGACGTTGA  
TAACGATACGTTAAATGAACTGGTGGTGGGAGACACCAGCGGGAAGGTGTCTGTGTATAAAAAATGATGACAGTCG  
GCCATGGCTCACCTGTTCTCGCCAGGGAATGCTGACTTGGCGTGGGGTGGAGACGTGTGTAATAAAGGAAAGAA  
CCTGTTGGTGGCAGTGAGTGTGAAGGCTGGTTTCATTTGTTTGACCTGACACCTGCCAAGGTGTTGGATGCTTC  
TGGGCACCACGAGACACTAATCGGAGAGGAGCAGCGTCCAGTCTTCAAGCAGCACATCCCTGCCAACACCAAGGT  
CATGCTGATCAGCGACATCGATGGAGATGGGTGTCGTGAGCTGGTGGTGGGCTACACAGACCGTGTGGTGGCAGC  
TTTCCGCTGGGAGGAGCTAGGTGAGGGTCTGAACATCTGACAGGGCAGCTGGTGTCCCTCAAGAAATGGATGCT  
GGAGGGTCAGGTGGACAGCCTCTCAGTGACTCTGGGGCCACTGGGTCTTCCTGAAGTGTGGTGTCTCAGCCAGG  
TTGTGCGTATGCAATTCTA<sup>1</sup>CTGTGTACCTGGAAAAAGGACACTGGGTCCCTCTGCCTCTGAAGGGCCACGGA  
TGGTAGTAGGGAGACCCAGCTGCCCGAGACGTGGTGTGCACCAGACATCTGGCCGTATCCACAACAAGAAATGT  
CTCCACTCACCTAATTGGCAACATCAAACAAGGCCACGGCACTGAGAGTAGTGGCTCTGGCCTCTTTGCCCTGTG  
CACCCTGGATGGGACACTGAAGCTCATGGAAGAAATGGAAGAAGCAGACAAGCTGCTGTGGTCAGTGCAGGTGGA  
TCACCAGCTCTTTGCCCTGGAGAACTGGATGTCACCGGCAACGGGCATGAGGAGGTAGTTGCATGCGCCTGGGA  
TGGACAGACATATATCATTGATCACAACCGCACCGTCTCGCTTCCAAGTGGATGAAAAATATCCGTGCCTTCTG  
TGCGGGCCTGTACGCCCTGCAAAGAGGGCCGCAACAGCCCTGCCTCGTATATGTCACTTTCAACCAGAAGATCTA  
TGTGTACTGGGAGGTGCAGCTGGAGCGGATGGAGTCTACCAATCTGGTGAACTGCTGGAGACCAAGCCGGAGTA  
CCACAGCCTGCTGCAGGAGCTGGGCGTGGATCCTGACGACCTCCCTGTGACTCGTGCCTGCTTCACCAAACGCT  
CTACCATCCAGACCAGCCACCACAGTGTGCTCCCTCAAGCCTCCAGGATCCCACCTAGCTGTACTTGCCTCATAG  
CTGGTGAAGGATTCTTCTGAACCCCCACCCTACCCCTTAAAGGTATCTGTGGTATTGGCAGGATAGGGAATATGC  
ATTACAGAAATGCAGGATTGACTCTGGGCATGAAAGATGGCAGCAGCCCTAGGGTGACCGTGAAGTATAGACCT  
CGCAGTCTTTTCGGTGAAGAAGAGACAAGTTGACCCTCTGCCCATTTTCCTTATGGACCTCACCCATCATGCCAG  
CAGGGTCATAGGACCCTGGCCTTGTTCCAAATCATCTGGGACATGACCCACTCCCCACTGTCACTGTGTTGAAAA  
CAGAGACTGTTTGTGTGGCCCCAACACCCATAAGGAAACCAGGCCTTAGGCCAGGGGAGCAGTGGAGGTAAGG  
GCTCCACCCCATCTTAAGCTCTGTCTTCCGTGGCACAATCCAAGTTCTTGACGTTAGTAATTGTTAAAGGAATG  
GCAAACTGTTTTGTTTTGAAGGATCTTTCTACAGTCTGGTCTTACCCATGTTCCCTAGCAACCCTGAGATGATTTT  
CTTCCATTTACCAAAGCAGCCGGGTCAGTGCCTTCTCAGTTGCCGTATTCTTCAGGTATTAGTCAGCTTCAGAA  
GCCCTGCTCCCATTTTTCCACCCACCCATTCCCCCATAAAACAGCTTATTGTCTCCAAGACAATAGACATTTAAA  
ATGTGATGCGGGTTTATGATCCAGACCACAATCAGAATTATATCTTGGGTCAATT

3733/6881

**FIGURE 3443**

MRSVSYVQRVALEFSGSLFPHAICLGDVDNDTLNELVVGDTSGKVSVKNDSDSRPWLTCSQGM LTCAGVG DVCN  
KGKNLLVAVSAEGWFHFLD LTPAKVLDASGHHETLIGEEQRPVFKQH IPANTKVMLISDIDGDGCRELVVGYTDR  
VVRAFRWEELGEGPEHLTGQLVSLKKWMLEGQVDSL SVTLGPLGLPELMVSQPGCAYAILLCTWKKDTGSPPASE  
GPTDGSRET PAARDVVLHQTSGRIHNKNVSTHLIGNIKQGHGTESSGSLFALCTLDGTLKLM EEMEEADKLLWS  
VQVDHQLFALEKLDVTGNGHEEVVACAWDGQTYIIDHNRTVVRFQVDENIRAF CAGLYACKEGRNSPCLVYVTFN  
QKIYVYWEVQLERMESTNLVKLLET KPEYHSL LQELGVDPDDL PVTRALLHQTLYHPDQPPQCAPSSLQDPT

3734/6881  
**FIGURE 3444**

CGGCGGCGACTGCAGTCTGGAGGGTCCACACTTGTGATTCTCAATGGAGAGTGAAAACGCAGATTCTATAATGAAA  
GCTAGCCCCCGTCGGCCACTGATTCTCAAAAGACGGAGGCTGCCCTTCCTGTTCAAAATGCCCCAAGTGAAACA  
TCAGAGGAGGAACCTAAGAGATCCCCTGCCCAACAGGAGTCTAATCAAGCAGAGGCCTCCAAGGAAGTGGCGGAG  
TCCAACCTCTTGCAAGTTTCCAGCTGGGATCAAGATTATTAACCACCCCACCATGCCCAACACGCAAGTAGTGGCC  
ATCCCCAACAAATGCTAATATTCACAGCATCATCACAGCACTGACTGCCAAGGGAAAAGAGAGTGGCAGTAGTGGG  
CCCCAACAAATTCATCCTCATCAGCTGTGGGGGAGCCCCAACTCAGCCTCCAGGACTCCGGCCTCAAACCCAAACC  
AGCTATGATGCCAAAAGGACAGAAGTGACCTGGAGACCTTGGGACCAAAACCTGCAGCTAGGGATGTGAATCTT  
CCTAGACCACCTGGAGCCCTTTGCGAGCAGAAACGGGAGACCTGTGCAGATGGTGAGGCAGCAGGCTGCACTATC  
AACAATAGCCTATCCAACATCCAGTGGCTTCGAAAGATGAGTTCTGATGGACTGGGCTCCCGCAGCATCAAGCAA  
GAGATGGAGGAAAAGGAGAATTGTACCTGGAGCAGCGACAGGTTAAGGTTGAGGAGCCTTCGAGACCATCAGCG  
TCCTGGCAGAACTCTGTGTCTGAGCGGCCACCCTACTCTTACATGGCCATGATACAATTCGCCATCAACAGCACT  
GAGAGGAAGCGCATGACTTTGAAAGACATCTATACGTGGATTGAGGACCACTTTCCCTACTTTAAGCACATTGCC  
AAGCCAGGCTGGAAGAATCCATCCGCCACAACCTTTCCCTGCACGACATGTTTGTCCGGGAGACGCTGCCAAT  
GGCAAGGTCTCCTTCTGGACCATTACCCCACTGCCAACCGCTACTTGACATTGGACCAGGTGTTTAAGCCACTG  
GACCCAGGCTCTCCACAATTGCCCGAGCACTTGAATCACAGCAGAAACGACCGAATCCAGAGCTCCGCCGGAAC  
ATGACCATCAAAACCGAATCCCCCTGGGCGCACGGCGGAAGATGAAGCCACTGCTACCACGGGTGAGCTCATAC  
CTGGTACCTATCCAGTTCCCGGTGAACCACTGCTGCTGTGAGCCCTCGGTGAAGGTGCCATTGCCCTTGCGG  
GCTTCCCTCATGAGCTCAGAGCTTGCCCGCCATAGCAAGCGAGTCCGCATTGCCCCAAGGTGCTGTAGCTGAG  
GAGGGGATAGCTCCTCTTTCTTCTGCAGGACCAGGGAAAGAGGAGAACTCCTGTTTGAGAGAAGGGTTTCTCCT  
TTGCTTCCAGTTCAGACTATCAAGGAGGAAGAAATCCAGCCTGGGGAGGAAATGCCACACTTAGCGAGACCCATC  
AAAGTGGAGAGCCCTCCCTTGAAGAGTGGCCCTCCCCGGCCCATCTTTCAAAGAGGAATCATCTCACTCCTGG  
GAGGATTCTGTTCCCAATCTCCCAACCCCAAGACCAAGAAGTCTACAGTGGGCTTAGGTCCCCAACCCGGTGTGTC  
TCGGAAATGCTTGTGATTCAACACAGGGAGAGGAGGGAGAGGAGCCGGTCTCGGAGGAAACAGCATCTACTGCCT  
CCCTGTGTGGATGAGCCGGAGCTGCTCTTCTCAGAGGGGCCAGTACTTCCCGTGGGCCGAGAGCTCCCGTTC  
CCAGCAGACTCCTCTGACCCTGCCTCCAGCTCAGTACTCCAGGAAGTGGGAGGACCTTTTAAGACACCCATT  
AAGGAAACGCTGCCCATCTCCTCACCCCGAGCAATCTGTCTCCCCAGAACCCCTGAATCCTGGAGGCTCAGC  
CCCCCAGCCAAAGTAGGGGGACTGGATTTAGCCAGTACAAACCTCCAGGGTGCCTCTGACCCCTTGCTGAC  
CCCCTGGGGCTGATGGATCTCAGCACTTCCCTTGCAAGTGTCCCCCCTTGAATCACCGCAAAGGCTCCTC  
AGTTCAGAACCCTTAGACCTCATCTCCGTCCCCTTTGGCAACTCTTCTCCCTCAGATATAGACGTCCCCAAGCCA  
GGCTCCCCGGAGCCACAGGTTTCTGGCCTTGAGCCAATCGTTCTCTGACAGAAGGCCTGGTCTGGACACAATG  
AATGACAGCCTCAGCAAGATCCTGCTGGACATCAGCTTTCTGGCCTGGACGAGGACCCACTGGGCCCTGACAAC  
ATCAACTGGTCCAGTTTATTCTGAGCTACAGTAGAGCCCTGCCCTTGCCCTGTGCTCAAGCTGTCCACCATC  
CCGGGCACTCCAAGGCTCAGTGCACCCCAAGCCTCTGAGTGAGGACAGCAGGCAGGGACTGTTCTGCTCCTCATA  
GCTCCCTGCTGCCTGATTATGCAAAAGTAGCAGTCAACCCCTAGCCACTGCTGGGACCTTGTGTTCCCCAAGAGT  
ATCTGATTCTCTGCTGTCCCTGCCAGGAGCTGAAGGGTGGGAACAACAAGGCAATGGTGAAAAGAGATTAGGA  
ACCCCCCAGCCTGTTTTCCATTCTCTGCCAGCAGTCTCTTACCTTCCCTGATCTTTGCAGGGTGGTCCGTGAAA  
TAGTATAAATTCTCAAATTATCCTCTAATTATAAATGTAAGCTTATTTCTTAGATCATTATCCAGAGACTGCC  
AGAAGGTGGGTAGGATGACCTGGGGTTTCAATTGACTTCTGTTTCTTGTCTTTAGTTTTGATAGAAGGGAAGACC  
TGCAGTGACGGTTTCTTCCAGGCTGAGGTACCTGGATCTTGGGTTCTTCACTGCAGGGACCCAGACAAGTGGAT  
CTGCTTGCCAGAGTCTTTTTGCCCCCTCCCTGCCACCTCCCGTGTTCCTCAAGTCAGCTTTCTGCAAGAAGAAA  
TCCTGGTTAAAAAGTCTTTTGTATTGGGTGAGGAGTTGAATTTGGGGTGGGAGGATGGATGCACTGAAGCAGA  
GTGTGGGTGCCAGATGTGCGCTATTAGATGTTTCTGATAATGTCCCAATCATACCAGGGAGACTGGCATTG  
ACGAGAACTCAGGTGGAGGCTTGAGAAGGCCGAAAGGGCCCCGTGACCTGCCTGGCTTCCTTAGCTTGCCCTCAG  
CTTTGCAAGAGCCACCTAGGCCCCAGCTGACCGCATGGGTGTGAGCCAGCTTGAGAACCTAACTACTCAATA  
AAAGCGAAGGTGGACCAAAAAAAAAAAAAAAAAAAAAA

3735/6881

**FIGURE 3445**

MKASPRRPLILKRRRLPLPVQNAPSETSEEEPKRSPAQQESNQAEASKEVAESNSCKFPAGIKIINHPTMPNTQV  
VAIPNNANIHSIITALTAKGKESGSSGPNKFILISCGGAPTQPPGLRPQTQTSYDAKRTEVTLETLGPKPAARDV  
NLPRPPGALCEQKRETCADGEAAGCTINNSLSNIQWLKRMSSDGLGSRSIKQEMEEKENCHLEQRQVKVEEPSRP  
SASWQNSVSEPPYSYAMAMIQFAINSTERKRMTLKDIIYTWIEDHFPYFKHIAKPGWKNSIRHNSLHDMFVRETS  
ANGKVSFWTIHPSANRYLTLDQVFKPLDPGSPQLPEHLESQQKRPNPELRRNMTIKTELPLGARRKMKPLLPRVS  
SYLVP IQFPVNQSLVLQPSVKVPLPLAASLMSSSELARHSKRVRAPKVLLAEEGIAPLSSAGPGKEEKLLFGEGF  
SPLLVPQTIKEEEIQPGEEMPHLARPIKVESPPLEEWSPAPSFKEESSHSEDSSQSPTPRPKKSYSGLRSPTR  
CVSEMLVIOHRERRERSRRKQHLLPPCVDEPELLFSEGPSTSRWAAELPFPADSSDPASQLSYSQEVGGPFKT  
PIKETLPISSTPSKSVLPTPESWRLTPPAKVGGLDFSPVQTSQGASDPLPDPLGLMDLSTTPLQSAPPLESPQR  
LLSSEPLDLISVPFGNSSPSDIDVPKPGSPEPQVSGLAANRSLTEGLVLDTMNDSLSKILLDISFPGLDEDPLGF  
DNINWSQFIPELQ

3736/6881  
**FIGURE 3446**

CGAAGGCTGTGCGGTCTGCCAGGAGCTGCGGCCCCGTCCGGCCCCGGGCTGGCATGGGTTGGAATTGGAGCCTATC  
CCCCAACCCGAAGGCTAACAGCATCATGTGGTTACTAAGTTCCTCATTCAACGGTTGATGCCTCCCAGAAAAA  
AACGCCGCCAGCCTTCCCAGAAAGCCCCGCTGCTGTTCCACCAACAACCACTGGAGGGCCCCAACACAGCTGTG  
CATCTACACAGCTTCCCATCACTCACACTCGACAGGTGCCAGCAAGCCCATTGACCACAGCACCATCACTTCCT  
GGGTATCACCTGATTTTGATACAGCAGCAGGAAGCTTGTTCCAGCCTACCAGAAACACCAAAACCGGGCGAGAC  
ACTCAAGTCGAAAACCTACCACCTCCAAGTTTCCACATCTAACTTTTGAGAGTCCGCAATCTTCCAGTTCAGAGA  
CATTGGGGATCCCCTTAATCCGAGAGTGCCCCAGTGAATCAGAAAAGGATGTTTCCAGAAGACCCCTTAGTTCCAG  
TGCTCAGTCCCCAAAGCTGTGGGAACATGTCAGTGCAGGCACTTCAGAGCTTACCTTATGTGTTCATTCCACCTG  
ATATCCAGACCCAGAGTCATCATCTGTGAAGGAAGAACTATTCCCCAAGATCAGAAGGAAAAACAGCCTTCTAA  
GCTGCACTCTTCACACTGGCACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGACACCCCCGAGGACA  
AGTATGGAATAAAGGTCACATGGAGGAGACGACAGCACCTGCTTGCTTACCTCAGGGAGAGAGGGAAGCTGAGCA  
GAAGCCAATTCTTGTGAAAAGCTGACTGCCATCAGTAATCTCAATAGAAAAGAGATATGTTTTCTGGAGTCATA  
AAGGAATTCAATTCCTAGGGTTTTTGTGTTTTGTTTTGAGATGTAATATTGCTCTGTTGCCAGGCTGGAGTGCA  
GTGGTATGATCTCACCTTACTGCAACCACCACTTCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCCAGTAG  
CTGGGATTACAGGCACCAGCCACCATGCCTGGCTAATTTTTTTGTATTTTTTAGTAGAGATGTGGTTTCTCCATGT  
TGGCCAGGCTGGTCTCAAAATCCTGACCTCAAGTCATCTGCTGGCCTTGACCTCACAAAGTGCTGGCCCAGCCGA  
GATTTGTTTTCTAAGATACTTTGTGTCATGAACAGTTCAGTTTAGTGTGTCATGAATATTCACTTCATATTTTTCT  
TGTATTAAGTGTGTTAAATTTTTAAATATCTGTAGTAAGTCTTTAAATGTATGTAAGTAAATGGCTGCAGAAA  
GTTTTTTTAGAGAATCCTGCTTCCATCAGTAATACAGCAATATTACCCCATCCACTAAAAAAAAAAAAAAAAAAAAA

A

3737/6881  
**FIGURE 3447**

MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVPSKPIDHSTITSWVSPDFDTAAGSLFPAYQKH  
QNRARHSSRKPTTSKFPHLTFESPQSSSSETLGIPLIRECPSESEKDVSRRPLVPVLSPOSCGNMSVQALQSLPY  
VFIPDIIQTPESSSVKEELIPQDQKENSLLSCTLHTGTPNSPEPGPVLVKDTPEDKYGIKVTWRRRQHLLAYLRE  
RGKLSRSQFLVKS

[illegible]

3739/6881  
**FIGURE 3449**

MAAAQSRVVRVLSMSRSAITAIATSVCHGPPCRQLHHALMPHGKGRSSVSGIVATVFGATGFLGRYVNNHLGR  
MGSQVIIPYRCDKYDIMHLRPMGDLGQLLFLEWDARDKDSIRRVVQHSNVVINLIGRDWETKNFDFEDVFVKIPQ  
AIAQLSKEAGVEKFIHVSHLNANIKSSSRYLRNKAVGEKVVRDAFPEAIIVKPSDIFGREDRFLNSFASMHRFGP  
IPLGSLGWKTIVKQPVYVVDVSKGIVNAVKDPDANGKSFAFVGPSRYLLFHLVKYIFAVAHRLFLPFPLPLFAYRW  
VARVFEISPFEPWITRDKVERMHITDMKLPHLPGLEDLGIQATPLELKAIEVLRRHRTYRWLSAEIEDVKPAKTV  
NI



3740/6881  
**FIGURE 3450**

CTCCCCGCTTCTCTCCGCAGAGCTCTTCTCTGAGCCTGTTGGGGGGAGGGAGGGGGGCGTGGAGGAACTGGGGTT  
CGCGGGAGCACGAGCTGCAGCACCCTTCCGAAAGTTCAGGAGCCCTGGAAAGGAGAAGGAATAAGACGGCAGG  
AGGAAGAGAGAGAGAGGGGTAGAATGGAAGAATCTCACTTCAATTCTAACCCGTACTTCTGGCCTTCTATCCCCAC  
AGTCTCAGGTCAGATCGAGAACAATGTTTCATCAACAAGATGAAGGATCAGCTGTTGCCAGAGAAGGGCTGTGG  
TCTGGCCCCACCTCACTACCCACCTTGCTGACAGTGCCTGCCTCAGTGTCCCTGCCCTCAGGCATCAGTATGGA  
CACAGAGTCCAAGTCAGACCAGCTGACCCACACAGCCAAGCGTCCGTTACCCAGAATATCACGGTGGTCCCTGT  
GCCGTCTACAGGACTGATGACTGCTGGAGTCTCTGTTCTCAGAGGTGGAGAAGAGAAGGGAGTCAATCAAGGGG  
TCCGGGTTTGGTAATCACGTCCCCCTCAGGCTCTCTTGTGACCACAGCATCATCAGCTCAGACCTTCCCCATTTT  
GGCTCCCATGATTGTCTCAGCTCTTCCCCCTGGCTCACAAGCCCTGCAGGTTGTCCCTGACCTCTCCAAGAAGGT  
AGCATCGACCCTAACCGAGGAAGGAGGCGGAGGTGGTGGTGGAGGTGGCAGTGTGGCTCCTAAGCCACCCCGGGG  
CCGGAAGAAGAAGCGGATGCTGGAATCAGGGCTGCCCGAGATGAATGACCCTTATGTCTCTCCCTGAGGATGA  
TGATGACCATCAGAAAGACGGCAAGACCTACAGGTGCCGGATGTGCTCACTGACATTCTACTCCAAGTCGGAGAT  
GCAGATCCACTCCAAGTCACACACCGAGACCAAGCCCCACAAGTGCCACATTGCTCCAAGACCTTCGCCAACAG  
CTCCTACCTGGCCCAGCACATCCGTATACACTCAGGGGCTAAGCCCTACAGTTGTAACCTTCTGTGAGAAATCCTT  
CCGCCAGTCTCCCACCTTCAGCAGCACACCCGGATCCACTCCAAGATGCACACGGAGACCATCAAGCCCCACAA  
GTGCCCCGACTGCTCCAAGACCTTCGCCAACACCTCCTACCTGGCCCAGCACCTCCGTATCCACTCGGGGGCCAA  
GCCCTACAACCTGTTCTACTGCCAGAAGGCCTTCCGCCAGCTCTCCACCTCCAGCAGCACACACGAATCCACAC  
TGGTGATAGACCATACAAATGTGCACACCCAGGCTGTGAGAAAGCCTTCACACAACCTCTCCAATCTGCAGTCCCA  
CAGACGGCAACACAACAAGATAAACCTTCAAGTGCCACAACCTGTCATCGGGCGTACACGGATCGAGCCTCACT  
AGAGGTGCACCTGTCTACGCACACAGTGAAGCATGCCAAGGTGTACACCTGCATATCTGCAGTCGGGCATACAC  
ATCAGAAACATACCTTATGAAACATATGCGCAAACACAACCCGCCTGATCTTCAGCAACAGGTGCAGGCAGCAGC  
AGCAGCGGCAGCAGTGGCCCAGGCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCCA  
GGCCCAGGCCTCCCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACC  
ACACTTCAGTCTCCTGGGGCAGCCCCCAGGGTGGGGGTGGTGGGGACAGCAATCCCAACCTCCACCCCACTG  
TTCCTTTGACCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATCTGCCTCACTGTACCACCAGCACCAT  
CCAGGTGGAGCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTGGGAAGAGGAAGAAGTAGTCCTGGTG  
TCTTCTTTCTCCAACCTCTTGGTGGGAAAAGTCTTTTCTTCTTACAGGCCTTGGCTCCATCTCCTTGGGCCTC  
TGTCACGGCTTTCCTTCACAGGATACCATCCTTTTCTGAACTCTTCTTCAAAGGAACATCAGCCCTCCTGATT  
GCAAAGGAATACTGAGCTGATGGTGTATCCAGCAGCCTCCCCTCCCAAGCAAAGCTTCTAAAACTGGGGGTGCG  
TGCTCAAGGGAAGGATTTGCTATGACCTCATAGAAC

3741/6881

**FIGURE 3451**

CTTCAAGTGCCACAACCTGTCATCGGGCGTACACGGATGCAGCCTCACTAGAGGTGCACCTGTCTACGCACACAGT  
GAAGCATGCCAAGGTGTACACCTGCACTATCTGCAGTCGGGCATACACATCACAACAGGTGCAGGCAGCAGCAGC  
AGCGGCAGCAGTGGCCCAGGCCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCCAGGC  
CCAGGCCTCCCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACCACA  
CTTCCAGTCTCCTGGGGCAGCCCCCAGGGTGGGGTGGTGGGGACAGCAATCCCAACCCTCCACCCAGTGTTT  
CTTTGACCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATCTGCCTCACTGTCAACCACCAGCACCATCCA  
GGTGGAGCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTG

3742/6881

## FIGURE 3452

GGGCCGGAGTTCCTGCAGAGGGAGCGTCAAGGCCCTGTGCTGCTGTCCCTGGGGGCCAGAGGGGTTGCCCAGCAT  
GCCCCACTGGCAGGAGAGAGGGAACTGACCCACTTGCTCCTACCAGCTTCTGAAGGCTCCAAAGTCCGGAGTGCAG  
AAAGCCAGGACCAAGAGACAGGCAGCTCACCAGGGTGGACAAATCGCCAGAGATGTGGTGCATTGTCCTGTTTTT  
ACTTTTGGCATGGGTTTATGCTGAGCCTACCATGTATGGGGAGATCCTGTCCCTAACTATCCTCAGGCATATCC  
CAGTGAGGTAGAGAAATCTTGGGACATAGAAGTTCTGAAGGGTATGGGATTACCTCTACTTCACCCATCTGGA  
CATTGAGCTGTCAGAGAACTGTGCGTATGACTCAGTGCAGATAATCTCAGGAGACACTGAAGAAGGGAGGCTCTG  
TGGACAGAGGAGCAGTAACAATCCCCACTCTCCAATTGTGGAAGAGTTCCAAGTCCCATACAACAACTCCAGGT  
GATCTTTAAGTCAGACTTTTCCAATGAAGAGCGTTTTACGGGGTTTGCTGCATACTATGTTGCCACAGACATAAA  
TGAATGCACAGATTTTGTAGATGTCCCTGTAGCCACTTCTGCAACAATTTCAATTGGTGGTTACTTCTGCTCCTG  
CCCCCGGAATATTTCTCCATGATGACATGAAGAATTGCGGAGTTAATTGCAGTGGGGATGTATTCACTGCACT  
GATTGGGGAGATTGCAAGTCCCAATTATCCCAAACCATATCCAGAGAACTCAAGGTGTGAATACCAGATCCGGTT  
GGAGAAAGGGTTCCAAGTGGTGGTGACCTTGGCGAGAGAAGATTTTGATGTGGAAGCAGCTGACTCAGCGGGAAA  
CTGCCCTGACAGTTTAGTTTTTGTGTCAGGAGATCGGCAATTTGGTCTTACTGTGGTCATGGATTCCCTGGGCC  
TCTAAATATTGAAACCAAGAGTAATGCTCTTGATATCATCTTCCAACTGATCTAACAGGGCAAAAAAGGGCTG  
GAACTTCGCTATCATGGAGATCCAATGCCCTGCCCTAAGGAAGACACTCCCAATTCTGTTTGGGAGCCTGCGAA  
GGCAAAATATGTCTTTAGAGATGTGGTGCAGATAACCTGTCTGGATGGGTTGAAGTTGTGGAGGGACGTGTTGG  
TGCAACATCTTTCTATTGACTTGTCAAAGCAATGGAAGTGGAGTAATTCCAACTGAAATGTCAACCTGTGGA  
CTGTGGCATTCTGAATCCATTGAGAATGGTAAAGTTGAAGACCCAGAGAGCACTTTGTTTGGTCTGTCTATCCG  
CTACACTGTGAGGAGCCATATTACTACATGAAAATGGAGGAGGTGGGGAGTATCACTGTGCTGTTAACGGGAG  
CTGGGTGAATGAGGTGCTGGGCCCCGAGCTGCCGAAATGTGTCCAGTCTGTGGAGTCCCCAGAGAACCCTTTGA  
AGAAAAACAGAGGATAATTGGAGGATCCGATGCAGATATTA AAAA ACTTCCCTGGCAAGTCTTCTTGACAACCC  
ATGGGCTGGTGGAGCGCTCATTAATGAGTACTGGGTGCTGACGGCTGCTCATGTTGTGGAGGGAAACAGGGAGCC  
AACAATGTATGTTGGGTCCACCTCAGTGCAGACCTCAGGGCTGGCAAAATCCAAGATGCTCACTCCTGAGCATGT  
GTTTATTCATCCGGGATGGAAGCTGCTGGAAGTCCCAGAAGGACGAACCAATTTTGATAATGACATTGCACTGGT  
GCGGCTGAAAGACCCAGTGA AAATGGGACCCACCGTCTCTCCATCTGCCTACCAGGCACCTCTCCGACTACAA  
CCTCATGGATGGGGACCTGGGACTGATCTCAGGCTGGGGCCGAACAGAGAAGAGAGATCGTGCTGTTTCGCCTCAA  
GGCGGCAAGGTTACCTGTAGCTCCTTTAAGAAAATGCAAAGAAGTGAAAGTGGAGAAACCCACAGCAGATGCAGA  
GGCCTATGTTTTCACTCCTAACATGATCTGTGCTGGAGGAGAGAAGGGCATGGATAGCTGTAAAGGGGACAGTGG  
TGGGGCCTTTGCTGTACAGGATCCCAATGACAAGACCAAATTTACGCAGCTGGCCTGGTGTCTGGGGGCCCCA  
GTGTGGGACCTATGGGCTCTACACACGGGTAAAGAACTATGTTGACTGGATAATGAAGACTATGCAGGAAAATAG  
CACCCCCGTGAGGACTTAATCCAGATACATCCACCAGCCTCTCCAAGGGTGGTGACCAATGCATTACCTTCTGT  
TCCTTATGATATTCTCATTATTTTCATCATGACTGAAAGAAGACACGAGCGAATGATTTAAATAGAACTTGATTGT  
TGAGACGCCTTGCTAGAGGTAGAGTTTGATCATAGAATTGTGCTGGTCATACATTTGTGGTCTGACTCCTTGGGG  
TCCTTTCCCGGAGTACCTATTTAGATAACACTATGGGTGGGGCACTCCTTTCTTGCACTATTCCACAGGGATA  
CCTTAATTCCTTTGTTTCTTTACCTGTTCAAAATTCATTACTTGATCATTCTCAGTATCCACTGTCTATGT  
ACAATAAAGGATGTTTATAAGC

3743/6881  
**FIGURE 3453**

MWCIVLFSLLAWVYAEPTMYGEILSPNYPQAYPSEVEKSWDIEVPEGYGIHLYFTHLDIELSENCAYDSVQIISG  
DTEEGRLCGQRSSNNPHSPIVEEFQVPYNKLQVIFKSDFSNEERFTGFAAYYVATDINECTDFVDVPCSHFCNNF  
IGGYFCSCPPEYFLHDDMKNGVNCSGDVFTALIGEIASPNYPKYPENSRCYQIRLEKGFQVVVTLRREDFDV  
EAADSAGNCLDSL VFVAGDRQFGPYCGHGFPGPLNIETKSNALDIIFQTDLTGQKKGWKLRYHGDPMPCPKEDTP  
NSVWEPAKAKYVFRDVVQITCLDGFVVEGRVGATSFYSTCQSNGKWSNSKLKQPVDCGIPESIEGKVEDPES  
TLFGSVIRYTCEEPYMYMENGGEYHCAGNGSWVNEVLGPELPKVPVCGVPREPFEKQRIIGGSDADIKNFP  
WQVFFDNPWAGGALINEYWVLTAAHVVEGNREPTMYVGSTSVQTSRLAKSKMLTPEHVFHHPGWKLEVP EGRTN  
FDNDIALVRLKDPVKMGPTVSPICLPGTSSDYNLMDGDLGLISGWGRTEKRDRVRLKAARLPVAPLRKCCEVKV  
EKPTADAEAYVFTPNMICAGGEKGMDSCKGDSGGAFVQDPNDKTKFYAAGLVSWGPQCGTYGLYTRVKNYVDWI  
MKTMQENSTPRED

3744/6881  
**FIGURE 3454**

CTCCTGAGCATGTGTTTATTTCATCCGGGATGGAAGCTGCTGGAAGTCCCAGAAGGACGAACCAATTTTGATAATG  
ACATTGCACTGGTGCGGCTGAAAGACCCAGTGAAAATGGGACCCACCGTCTCTCCCATCTGCCTACCAGGCACCT  
CTTCCGACTACAACCTCATGGATGGGGACCTGGGACTGATCTCAGGCTGGGGCCGAACAGAGAAGAGAGATCGTG  
CTGTTTCGCCTCAAGGCGGCAAGGTTACCTGTAGCTCCTTTAAGTTTCACTCCTAACATGATCTGTGCTGGAGGAG  
AGAAGGGCATGGATAGCTGTAAAGGGGACAGTGGTGGGGCCTTTGCTGTACAGGATCCCAATGACAAGACCAAAT  
TCTACGCAGCTGGCCTGGTGTCTGGGGGCCCCAGTGTGGGACCTATGGGCTCTACACACGGGTAAAGAACTATG  
TTGACTGGATAATGAAGACTATGCAGGAAAATAGCACCCCCCGTGAGGACTAATCCAGATACATCCCACCAGCCT  
CTCCAAGGGTGGTGACCAATGCATTACCTTCTGTTTCCTTATGATATTCTCATTATTTTCATCATGACTGAAAGAAG  
ACACGAGCGAATGATTTAAATAGAACTTGATTGTTGAGACGCCTTG

3745/6881  
**FIGURE 3455**

GCAGTACCTAAGCCGGAGCGGGGTAGAGGCGGGCCGGCACCCCCTTCTGACCTCCAGTGCCGCCGGCCTCAAGAT  
CAGACATGGGCCAGAACTTGAAGGACTTGGCGGGACGGCTGCCCGCCGGGCCCCGGGGCATGGGCACGGCCCTGA  
AGCTGTTGCTGGGGGCCGGCGCCGTGGCCTACGGTGTGCGCGAATCTGTGTTACCGTGGAAGGCGGGCACAGAG  
CCATCTTCTTCAATCGGATCGGTGGAGTGCAGCAGGACACTATCCTGGCCGAGGGCCTTCACTTCAGGATCCCTT  
GGTTCCAGTACCCCAATTATCTATGACATTCGGGCCAGACCTCGAAAAATCTCCTCCCCTACAGGCTCCAAAGACC  
TACAGATGGTGAATATCTCCCTGCGAGTGTGTTCTCGACCCAATGCTCAGGAGCTTCCTAGCATGTACCAGCGCC  
TAGGGCTGGACTACGAGGAACGAGTGTGCGGTCCATTGTCAACGAGGTGCTCAAGAGTGTGGTGGCCAAGTTCA  
ATGCCCTCACAGCTGATCAGCCAGCGGGCCAGGTATCCCTGTTGATCCGCCGGGAGCTGACAGAGAGGGCCAAGG  
ACTTCAGCCTCATCCTGGATGATGTGGCCATCACAGAGCTGAGCTTTAGCCGAGAGTACACAGCTGCTGTAGAAG  
CCAAACAAGTGGCCAGCAGGAGGCCAGCGGGCCCAATTCTTGGTAGAAAAAGCAAAGCAGGAACAGCGGCAGA  
AAATTGTGCAGGCCGAGGGTGAGGCCGAGGCTGCCAAGATGCTTGGAGAAGCACTGAGCAAGAACCCTGGCTACA  
TCAAACCTCGCAAGATTCGAGCAGCCCAGAATATCTCCAAGACGATCGCCACATCACAGAATCGTATCTATCTCA  
CAGCTGACAACCTTGTGCTGAACCTACAGGATGAAAGTTTCACCAGGGGAAGTGACAGCCTCATCAAGGGTAAGA  
AATGAGCCTAGTCACCAAGAACTCCACCCCCAGAGGAAGTGGATCTGCTTCTCCAGTTTTTGAGGAGCCAGCCAG  
GGGTCCAGCACAGCCCTACCCCGCCCCAGTATCATGCGATGGTCCCCCACACCGGTTCCCTGAACCCCTCTTGGA  
TTAAGGAAGACTGAAGACTAGCCCTTTTCTGGGGAATTACTTTCCTCCTCCCTGTGTTAACTGGGGCTGTTGGG  
GACAGTGCGTGATTTCTCAGTGATTTCTACAGTGTGTTCCCTCCCTCAAGGCTGGGAGGAGATAAACACCAAC  
CCAGGAATTCTCAATAAATTTTATTACTTAACCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3746/6881

**FIGURE 3456**

MAQNLKDLAGRLPAGPRGMGTALKLLLGAGAVAYGVRESVFTVEGGHRAIFFNRIGGVQQDTILAEGLHFRI  
PW  
QYPIIYDIRARPRKISSPTGSKDLQMVNISLRVLSRPNAQELPSMYQRLGLDYEERVLP  
SIVNEVLKSVVAKFNA  
SQLITQRAQVSLIRRELTERAKDFSLILDDVAITELSF  
SREYTA  
AVEAKQVAQQAQRAQFLVEKAKQEQRQKI  
VQAEGEAEAAKMLGEALSKNPGYIKLRKIRAAQNISKTIATSONRIYLTADNLVLNLQDES  
FTRGSDSLIKGKK

3747/6881  
**FIGURE 3457A**

ACGCCATACTGGACGCCAAGTGGGAGGAACTTCAAGGCTGTCCCTGCGGGCTCCCGCTCTGCTTCTGCGAAGG  
TTTCATTGAAAACAGATCCTGCAAAAGTTCCAGGTGCCACACTGGAACTTGGAGATCCTGCTTCCCAGACCAC  
AGCTGTGGGGAACCTGGGGTGGAGCAGAGAAGTTCTGTATTTCAGCTGCCAGGCAGAGGAGAATGGGGTCTCCA  
CAGCCTGAAGAATGAAGACACGACAGAATAAAGACTCGATGTCAATGAGGAGTGGACGGAAGAAAGAGGCCCTG  
GGCCCCGGGAAGAACTGAGATCGAGGGGCCGGGCTCCCTGGAGGGGTGAGCACGTCCAGCAGTATGGCAAAG  
CTGAGAAGTCCAGGCAGACAGCCAAGAAGGCCGAGTAGAGGAAGCCTCCACCCCAAAGGTCAACAAGCAGGGTC  
GGAGTGAGGAGATCTCAGAGAGTGAAAGTGAGGAGACCAATGCACCAAAAAGACCAAACTGAGCAGGAACTCC  
CTCGGCCACAGTCTCCCTCCGATCTGGATAGCTTGGACGGGCGGAGCCTTAATGATGATGGCAGCAGCGACCCTA  
GGGATATCGACCAGGACAACCGAAGCACGTCCCCAGTATCTACAGCCCTGGAAGTGTGGAGAATGACTCTGACT  
CATCTTCTGGCTGTCCCAGGGCCCAGCCGCCCCCTACCACCCACCTCCACTCTTTCTCTCTCCCTCAACCGC  
CAGACAGCACCCCTCGACAGCCAGAGGCTAGCTTTGAACCCCATCCTTCTGTGACACCCACTGGATATCATGCTC  
CCATGGAGCCCCCACATCTCGAATGTTCCAGGCTCCTCTGGGGCCCCCTCCCCCTACCCACAGCTCTATCCTG  
GGGGCACTGGTGGAGTTTTGTCTGGACCCCCAATGGGTCCAAGGGGGGAGGGGCTGCCTCATCAGTGGGGGGCC  
CTAATGGGGGTAAAGCAGCACCCCCACCCACTACTCCCATTTTCAGTATCAAGCTCTGGGGCTAGTGGTGCTCCCC  
CAACAAAGCCGCTACCACTCCAGTGGGTGGTGGGAACCTACCTTCTGCTCCACCACCAGCCAACCTTCCCCATG  
TGACACCGAACCTGCCTCCCCACCTGCCCTGAGACCCCTCAACAATGCATCAGCCTCTCCCCCTGGCTGGGGG  
CCCAACCACTACCTGGTCATCTGCCCTCTCCCCACGCCATGGGACAGGGTATGGGTGGACTTCTCTGGCCCAG  
AGAAGGGCCCAACTCTGGCTCCTTACCCCACTCTCTGCCCTCCTGCTCTCTCTGCTCCAGCGCCCCCATGA  
GGTTTCTTATTCATCCTCTAGTAGTAGCTCTGCAGCAGCCTCCTCTCCAGTTCTTCTCTCTCTCTCTGCT  
CCCCCTTCCCAGCTTCCCAGGCATTGCCAGCTACCCCACTCTTTCCTTCCCCAACAGCCTCTCTGCTCCA  
ATCAGCCCCCAAGTATACTCAGCCTTCTCTCCATCCCAGGCTGTGTGGAGCCAGGGTCCCCCACCACCTCCTC  
CCTATGGCCGCTCTTAGCCAACAGCAATGCCATCCAGGCCCCCTTCCCTCCCTCTACTGGGGCCAGTCCACCG  
CCCACCCACCACTCTCAACACATCACCATCACCACCAGCAACAGCAACAGCAGCAGCAGCAGCAGCAGCAGC  
AGCAGCAGCAGCAGCAGCATCACGAAACTCTGGGCCCCCTCCTCCTGGAGCATTTCACCCCACTGGAGGGCG  
GTAGCTCCCACCACGCACACCTTACGCCATGTCTCCCTCCCTGGGGTCTCTGAGGCCCTACCCACCAGGGCCAG  
CACACCTGCCCCACCTCACAGCCAGGTGTCTTACAGCCAAGCAGGCCCAATGGCCCTCCAGTCTCTTCTCTT  
CCAACCTCTTCTCTTCCACTTCTCAAGGGTCTACCCATGTTTACACCCCTCCCTTCCCAGGGCCCTCAAGGGG  
CGCCCTACCTTTCCCACCGGTGCTACGGTACCACTCTTCGGCTACCCCTTTCACGGTCAATTGCCACCGTGG  
CTTCTCGCCAGCAGGCTACAAAACGGCCTCCCCACCTGGGCCCCCACCCTACGGAAGAGAGCCCCGTCCCCGG  
GGGCTTACAAGACAGCCACCCACCCGGATACAAACCCGGGTGCGCTCCCTCCTTCCGAACGGGGACCCACCGG  
GCTATCGAGGAACCTCGCCACCTGCAGGCCAGGGACCTTCAAGCCGGGCTCGCCACCGTGGGACCTGGGCCCC  
TGCCACCTGCGGGGCCCTCAGGCCTGCCATCGCTGCCACCACCACCTGCGGGCCCTGCCTCAGGGCCGCCCCCTGA  
GCGCCACGCAGATCAAACAGGAGCCGGCTGAGGAGTATGAGACCCCCGAGAGCCCGGTGCCCCCAGCCCGCAGCC  
CCTCGCCCCCTCCCAAGGTGGTAGATGTACCCAGCAATGCCAGTCAGTCTGCCAGGTTCAACAAACACCTGGATC  
GCGGCTTCAACTCGTGCGCGCGCAGCGACCTGTACTTCTGTCCACTGGAGGGCTCCAAGCTGGCCAAGAAGCGGG  
CCGACCTGGTGGAGAAGGTGCGGCGCGAGGCCGAGCAGCGCGCGCGAAGAAAAGGAGCGCGAGCGCGAGCGGG  
AACGCGAGAAAGAGCGCGAGCGCGAGAAGGAGCGCGAGCTTGAACGCGAGCGTGAAGTTGGCTCAGGAGGGCCGTG  
CTCCGGTGGAAATGCCCATCTCTGGGCCCAGTGCCCCATCGCCCTCCATTGAACCGGGCAGTGGGTGGCTACAG  
TGCCCCCTACCTGGGTCTGACACTCCAGCCTTGCCTACTCTCAGTGAATATGCCCGGCTCATGTCTATGCTC  
CTGGCAATCGCAACCATCCATTCTACGTGCCCTGGGGGCACTGGACCCGGGGCTCCTGGGTACAAATGTCCTGG  
CCCTGTACAGCAGTGATCCAGCTGCCCGGAGAGGGAACGGGAAGCCCGTGAACGAGACCTCCGTGACCGCCTCA  
AGCCTGGCTTTGAGGTGAAGCCTAGTGAGCTGGAACCCCTACATGGGGTCCCTGGGCGGGGCTTGGATCCCTTTC  
CCCGACATGGGGGCTGGCTCTGCAGCCTGGCCACCTGGCCTGCACCTTTCCCTTTTCATCCGAGCCTGGGGC  
CCCTGGAGCGAGAACGTCTAGCGCTGGCAGCTGGGCCAGCCCTGCGGCTGACATGTCTATGCTGAGCGGCTGG  
CAGCTGAGAGGCAGCACGAGAAAGGTGGCGGCCCTGGGCAATGACCCACTGGCCCGGCTGCAGATGCTCAATG  
TGACTCCCCATCACCACCAGCACTCCACATCCACTCGCACCTGCACCTGCACCAGCAAGATGCTATCCATGCAG  
CCTCTGCCTCGGTGCACCTCTCATTGACCCCTGGCCTCAGGGTCTCACCTTACCCGGATCCCTTACCCAGCTG  
GAACTCTCCCTAACCCCTGCTTCTCACCCTCTGCACGAGAACGAAGTCTTCTGTCACCAGCTCTTTGCTGCC



3748/6881  
**FIGURE 3457B**

CTTACCGGGACCTGCCGGCCTCCCTTTCTGCCCCGATGTCAGCAGCTCATCAGCTGCAGGCCATGCACGCACAGT  
CAGCTGAGCTGCAGCGCTTGGCGCTGGAACAGCAGCAGTGGCTGCATGCCCATCACCCGCTGCACAGTGTGCCGC  
TGCCTGCCCAGGAGGACTACTACAGTCACCTGAAGAAGGAAAGCGACAAGCCACTGTAGAACCTGCGATCAAGAG  
AGCACCATGGCTCCTACATTGGACCTTGGAGCACCCCCACCCTCCCCCACCCTGCCCCTTGGCCTGCCACCCAGA  
GCCAAGAGGGTGCTGCTCAGTTGCAGGGCCTCCGCAGCTGGACAGAGAGTGGGGGAGGGAGGGACAGACAGAAGG  
CCAAGGCCCGATGTGGTGTGCAGAGGTGGGGAGGTGGCGAGGATGGGGACAGAAAGCGCACAGAATCTTGGACCA  
GGTCTCTCTTCTTGTCCCCCTGCTTTTCTCCTCCCCATGCCCAACCCCTGTGGCGCCGCCCTTCCCCTGCC  
CCGTTGGTGTGATTATTTTCATCTGTTAGATGTGGCTGTTTTGCGTAGCATCGTGTGCCACCCCTGCCCTCCCCG  
ATCCCTGTGTGCGCGCCCCCTCTGCAATGTATGCCCCTTGGCCCTTCCCCACACTAATAATTTATATATATAAAT  
ATCTATATGACGCTCTTAAAAAAACATCCCAACCAAAACCAACCAACAAAAACATCCTCACAACTCCCCAGGA

3749/6881  
**FIGURE 3458**

ACCCGCGCTCGTACGTGCGCCTCCGCCGGCAGCTCCTGACTCATCGGGGGCTCCGGGTACATGCGCCCGCGCGG  
CCCTATAGGCGCCTCCTCCGCCCGCCCGGGAGCCGCGAGCCGCGCCGCCACTGCCACTCCCGCTCTCTCAGC  
GCCGCCGTGCGCACCGCCACCGCCACCGCCACTACCACCGTCTGAGTCTGCAGTCCCGAGATCCCAGCCATCATG

TCCATAGAGAAGATCTGGGCCCCGGGAGATCCTGGACTCCCGCGGGAACCCACAGTGGAGGTGGATCTCTATACT  
GCCAAAGGTCTTTTCCGGGCTGCAGTGCCAGTGGAGCCTCTACGGGCATCTATGAGGCCCTGGAGCTGAGGGAT  
GGAGACAAACAGCGTTACTTAGGCAAAGGTGTCTGAAGGCAGTGGACCACATCAACTCCACCATCGCGCCAGCC  
CTCATCAGCTCAGGTCTCTCTGTGGTGGAGCAAGAGAACTGGACAACCTGATGCTGGAGTTGGATGGGACTGAG  
AACAAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTGTCTCTGGCCGTGTGTAAGGCAGGGGCAGCTGAGCGG  
GAAGTGGCCCTGTATCGCCACATTGCTCAGCTGGCCGGGAAGTCAAGACCTCATCCTGCCTGTGCCGCCCTTCAAC  
GTGATCAATGGTGGCTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTTATGATCCTCCAGTGGGAGCTGAG  
AGCTTTCCGGGATGCCATGCGACTAGGTGCGAGGTCTACCATACTCAAGGGAGTCAAGGACAAATACGGC  
AAGGATGCCACCAATGTGGGGGATGAAGGTGGCTTTGCCCCCAATATCCTGGAGAACAGTGAAGCCTTGGAGCTG  
GTGAAGGAAGCCATCGACAAGGCTGGCTACACGGAAGATCGTTATTGGCATGGATGTTGCTGCCTCAGAGTTT  
TATCGTGATGGCAAATATGACTTGGACTTCAAGTCTCCCACTGATCCTTCCCGATACATCACTGGGGACCAGCTG  
GGGGCACTCTACCAGGACTTGTGAGGACTATCCTGTGGTCTCCATTGAGGACCCATTTGACCAGGATGATTGG  
GCTGCCTGGTCCAAGTTCACAGCCAATGTAGGGATCCAGATTGTGGGTGATGACCTGACAGTGACCAACCCAAA  
CGTATTGAGCGGGCAGTGGGAAGAAAGGCCTGCAACTGTCTGCTGCTCAAGGTCAACCAGATCGGCTCGGTCACT  
GAAGCCATCCAAGCGTGCAAGCTGGCCAGGAGAATGGCTGGGGGGTCAAGGTGAGTCAATCGCTCAGGAGAGACT  
GAGGACACATTTCATTGCTGACCTGGTGGTGGGGCTGTGCACAGGCCAGATCAAGACTGGTGGCCCGTGCCGTTCT  
GAACGTCTGGCTAAATACAACCAGCTCATGAGAATTGAGGAAGAGCTGGGGGATGAAGCTCGCTTGGCCGACAT  
AACTTCCGTAATCCAGTGTGCTGTGATTCTCTGCTTGCCTGGAGACGTGGAACCTCTGTCTCATCCTCCTGGA  
ACCTTGCTGTCTGATCTGTGATAGTTACCCCTGAGATCCCTGAGCCCCAGGGTGCCAGAACTTCCCTGAT  
TGACCTGCTCCGCTGCTCCTTGCTTACCTGACCTCTTGCTGTCTCTGCTCGCCCTCCTTTCTGTGCCCTACTCA  
TTGGGGTTCCGCACTTTCCACTTCTTCTTTCTTCTTCTTCCCTCAGAACTAGAAATGTGAATGAGGATT  
ATTATAAAGGGGGTCCGTGGAAGAATGATCAGCATCTGTGATGGGAGCGTCAGGGTTGGTGTGCTGAGGTGTTA  
GAGAGGGACCATGTGTCACTTGTGCTTTGCTCTGTGCCACGTGTCTTCCACTTTCATATGAGCCGTGAAGTGT  
GCATAGTGTGGGATGGAGGGGAGTGTGGGCATGTGATCAGCCTGGCTAATAAGGCTTTAGTGTATTTATTTA  
TTTATTTATTTTATTTGTTTTTCATTCATCCCATTAATCATTCCCCATAACTCAATGGCCTAAACTGGCCTGA  
CTTGGGGGAACGATGTGTCTGTATTTTCATGTGGCTGTAGATCCCAAGATGACTGGGGTGGGAGGTCTTGCTAGAA  
TGGGAAGGGTCATAGAAAGGGCCTTGACATCAGTTCCCTTTGTGTGTAATCACTGAAGCCTGCGTTGGTCCAGAGC  
GGAGGCTGTGTGCTGGGGGAGTTTTCTCTATACATCTCTCCCAACCCTAGGTTCCCTGTTCTTCTCCAGCT  
GCACCAGAGCAACCTCTCACTCCCATGCCACGTTCCACAGTTGCCACCACCTCTGTGGCATTGAAATGAGCACC  
TCCATTAAAGTCTGAATCAGTGC

3750/6881  
**FIGURE 3459**

MSIEKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALERDGDQRYLGKGVLKAVDHINSTIAP  
ALISSGLSVVEQEKLNDNLMLDGTENKSKFGANAILGVSLAVCKAGAAERELPLYRHIAQLAGNSDLILPVPF  
NVIINGGSHAGNKLAMQEFMILPVGAESFRDAMRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENSEALE  
LVKEAIDKAGYTEKIVIGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDD  
WAAWSKFTANVGIQIVGDDLTVTNPKRIERAVEREEKACNCLLLKVNQIGSVTEAIQACKLAQENGWGMVSHRSGE  
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEELGDEARFAGHNFRNP SVL

3751/6881  
**FIGURE 3460**

GGCACGAGGGAGAACTAGTCTCAGTTTTTTTTTTTTTTTTTTAGGTGAGAAAGCCAGCTGACTTTATTGCTCTG  
GGGGCAGGGGGCTCAGGAGCTCTTGGTGGGGCGGGTCCGCTTCTCTTACCATCACAGGCTTCTGGCTGCGCAG  
GATGGCGCTGGCCCTGCGGATGGCTGCCATGCGCAGGTTCGGGGCGGTACTTGTTCTTGCGGATCATGTGTCTGAT  
GCTGCTGAGCGTGGCGCGAGCATTCTTGTTGATGGTGGTCCGCACATAGGAGGTGGCAGGCTTCCGCTGGCCGGA  
TCTCCGCTTAATGACCACCACGACACCTTTGCCGTCCGGCTCCCGGCTCCACGCCCACAGTCTTGCGGTGAATCAG  
TCCGTTGTAGCGGAAGGAATTGCGGGCCTTCAAGTTATTGGGCTCAGTGTCTGAGGTCTGCTTATTCTCTTGAT  
CAGGAACTGGAGCAGTTCCGCACGACCATCCATTGCAGATGCGCAGACATGGCGGGCGGCTCCCTTCGCAGCGGC  
GACCTGACCTTCAGCGCCTCGGCTCCAGCGCCATGCGGCCCTCCAGGAAGTTCTTCGTTGGGGGAACTGGAAGA  
TGAACGGGCGGAAGCAGAGTCTGGGGGAGCTCATCGGCACTCTGAACGCGGCCAAGGTGCCGGCCGACACCGAGG  
TGGTTTGTGCTCCCCCTACTGCCTATATCGACTTCGCCCGGCAGAAGCTAGATCCCAAGATTGCTGTGGCTGCGC  
AGAACTGCTACAAAGTGACTAATGGGGCTTTTACTGGGGAGATCAGCCCTGGCATGATCAAAGACTGCGGAGCCA  
CGTGGGTGGTCTTGGGGCACTCAGAGAGAAGGCATGTCTTTGGGGAGTCAGATGAGCTGATTGGGCAGAAAGTGG  
CCCATGCTCTGGCAGAGGGACTCGGAGTAATCGCCTGCATTGGGGAGAAGCTAGATGAAAGGGAAGCTGGCATCA  
CTGAGAAGGTTGTTTTCGAGCAGACAAAGGTCATCGCAGATAACGTGAAGGACTGGAGCAAGGTCGTCTTGGCCT  
ATGAGCCTGTGTGGGCCATTGGTACTGGCAAGACTGCAACACCCCAACAGGCCCCAGGAAGTACACGAGAAGCTCC  
GAGGATGGCTGAAGTCCAACGTCTCTGATGCGGTGGCTCAGAGCACCCGTATCATTTATGGAGGCTCTGTGACTG  
GGGCAACCTGCAAGGAGCTGGCCAGCCAGCCTGATGTGGATGGCTTCCTTGTGGGTGGTGTCTCCCTCAAGCCCG  
AATTCGTGGACATCATCAATGCCAAACAATGAGCCCCATCCATCTTCCCTACCCTTCCCTGCCAAGCCAGGGACTA  
AGCAGCCCAGAAGCCCAGTAAGTCCCTTTCCCTGCATATGCTTCTGATGGTGTCTGCTCCTTCCCTGTGGCC  
TCATCCAAACTGTATCTTCCCTTTACTGTTTATATCTTACCCTGTAATGGTTGGGACCAGGCCAATCCCTTCTCC  
ACTTACTATAATGGTTGGAATAAACGTACCAAGGTGGCTTCTCCTTGGCTGAGAGATGGAAGGCGTGGTGGGA  
TTTGCTCCTGGGTTCCTTAGGCCCTAGTGAGGGCAGAAGAGAAACCATCCTCTCCCTTCTTACACCGTGAGGCCA  
AGATCCCCCTCAGAAGGCAGGAGTGCTGCCCTCTCCCATGGTGCCCGTGCTCTGTGCTGTGTATGTGAACACCC  
ATGTGAGGGAATAAACCTGGCACTAGGTAAAAAAAAAAAAAAAAAAAAA

3752/6881  
**FIGURE 3461**

MAPSRKFFVGGNWKMNQRKQSLGELIGILNAAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAF  
TGEISPGMIKDCGATWVVLGHSERRHVFGESDELIGQKVAHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKV  
IADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSTRIIYGGSVTGATCKELASQP  
DVDGFLVGGASLKPEFVDIINAKQ

3753/6881  
**FIGURE 3462**

GGAGAAGCTGCTGCCGGTGTCTATGGCGGAGCTGAGTGAGGAGGCGCTGCTGTCAGTATTACCGACGATCCGGGTC  
CCTAAGGCTGGAGACCGGGTCCACAAAGACGAGTGCGCCTTCTCCTTCGACACGCCGGAGTCTGAGGGGGGCCCTC  
TACATCTGTATGAACACGTTTCTGGGCTTTGGGAAACAGTATGTGGAGAGACATTTCAATAAGACCGGCCAGCGA  
GTCTACTTGCACCTCCGGCGGACCGGGCGCCGAAAGAGGAGGACCCTGCTACAGGCACTGGAGACCCACCCCGG  
AAGAAGCCCCACGCGGCTGGCTATTGGTGTGAAGGCGGATTGACCTTAGCGAGGAGAAGTTTGAATTAGACGAG  
GATGTGAAGATTGTCAATTTGCCAGATTACCTGGAGATTGCCCGGATGGACTGGGGGACTGCCGTGACATTGTC  
AGAGATCGGGTGACCAGTGCAGTGGAGGCCCTACTGTGGGCCGACTCAGCCTCCCGCAAGCAGGAGGTGCAGGCA  
TGGGATGGGGAAGTACGGCAGGTGTCTAAGCATGCCTTCAGCCTCAAGCAGTTGGACAACCCTGCTCGAATCCCT  
CCCTGTGGCTGGAAGTGTCTCAAGTGTGACATGAGAGAGAACCCTGTGGCTCAACCTGACTGATGGCTCCATCCTC  
TGTGGGCGACGCTACTTTCGATGGCAGTGGGGGCAACAACCACGCTGTGGAGCACTACCGAGAGACAGGCTACCCG  
TTAGCTGTCAAGCTGGGCACCATCACCCCTGATGGAGCTGACGTGTACTCATATGATGAGGATGACATGGTCTCTG  
GACCCACGCTGGCTGAGCACCTGTCCACTTCGGCATCGACATGCTGAAGATGCAGAAGACAGACAAGACGATG  
ACTGAGTTGGAGATAGACATGAACCAGCGGATTGGTGAATGGGAGCTGATCCAGGAGTCAGGTGTGCCACTCAAG  
CCCCTGTTTGGGCTGGCTACACAGGCATCCGGAACCTGGGTAACAGCTGCTACCTCAACTCTGTGGTCCAGGTG  
CTCTTCAGCATCCCTGACTTCCAGAGGAAGTATGTGGATAAGCTGGAGAAGATCTCCAGAATGCCCCGACGGAC  
CCTACCCAGGATTTTCAGCACCCAGGTGGCCAGCTGGGCCATGGCCTTCTCTCCGGGGAGTATTCGAAGCCAGTA  
CCGGAGTCGGGCGATGGGGAGCGGGTGCCAGAACAGAAGGAAGTTCAAGATGGCATTGCCCCCTCGGATGTTCAAG  
GCCCTCATCGGCAAGGGCCACCCTGAATTCTCCACCAACCGGCAGCAGGATGCCCAGGAGTTCTTCTTCACTT  
ATCAACATGGTGGAGAGGAATTGCCGGAGCTCTGAAATCCTAATGAAGTGTTCGCTTCTTGGTGGAGGAAAAG  
ATCAAGTGCTGGCCACAGAGAAGGTGAAGTACACCCAGCGAGTTGACTACATCATGCAGCTGCCTGTGCCCATG  
GATGCAGCCCTTAACAAAGAGGAGCTTCTGGAGTACGAGGAGAAGAAGCGGCAAGCCGAAGAGGAGAAGATGGCA  
CTGCCAGAACTGGTTCCGGGCCAGGTGCCCTTCAGCTCTTGCTGGAGGCCTACGGGGCCCTGAGCAGGTGAT  
GACTTCTGGAGCACGGCCCTGCAGGCCAAGTCAGTAGCTGTCAAGACCACACGATTGCTTCACTTCCCTGACTAC  
CTGGTTCATCCAGATCAAGAAGTTCACCTTCGGCTTAGACTGGGTGCCCAAGAACTGGATGTGTCCATCGAGATG  
CCAGAGGAGCTCGACATCTCCAGTTGAGGGGCACAGGGCTGCAGCCCGAGAGGAGGAGCTGCCAGACATTGCC  
CCACCCCTGGTCACTCCGATGAGCCCCAAAGCGCCCATGCTGGATGAATCAGTCATCATCCAGCTGGTGGAGATG  
GGATTCCCTATGGACGCTGCCGCAAAGCTGTCTACTACAGGGCAACAGCGGGGCTGAGGCCGCCATGAAGTGG  
GTCATGTACACATGGATGATCCAGATTTTGAAACCCCTCATCCTGCCTGGCTCTAGTGGGCCGGGCTCCACA  
AGCGCAGCAGCCGACCCCCCTCTGAGGACTGTGTGACCACCATGTCTCCATGGGCTTCTCCCGGGACAGGCC  
TTGAAAGCGCTGCGGGCCACGAACAATAGTTTAGAACGGGCTGTGGACTGGATCTTCACTCAGTACATTGACACCTG  
GATGCTGAAGCTGCCATGGACATCTCAGAGGGCCGCTCAGCTGCCGACTCCATCTCTGAGTCTGTGCCAGTGGGA  
CCTAAAGTCCGGATGGTCTCTGAAAGTATCAGCTCTTGCCTTCATTAGTCACATGGGCACCTCTACCATGTGT  
GGTCACTACGCTGTGCCACATCAAGAAAGAAGGCAGATGGGTGATCTACAATGACCAGAAAGTGTGTGCCCTCCGAG  
AAGCCGCCCAAGGACCTGGGCTACATCTACTTCTACCAGAGAGTGCCAGCTAAGAGCCTGCCTCACCCCTTACC  
AATGAGGGCAGGGGAAGACCACCTGGCATGAGGGAGAGGGGCTGAGGGATGGACTTCAGCCCCCTCTGCTCTGTAC  
CCTTTTTCTTTGTCCCCGACAGGGGAAGAAGCTGGAGGCCGTGGGAGAATGGCTGGGCAGAGCAGAGGGGC  
AGCGATAGACTCTGGGGATGGAGCAGGACGGGGACGGGAGGGGCCGCCACCTGTCTGTAAGGAGACTTTGTGTG  
TTCCCCCTGCCCCCGGAATCCACAGTGCTCTGCTTCTCTGTGTCGCCCCGCCCAGCCCCCTGGTGTGGAGGGAGGG  
GTCTCGTTTTGTGCGGTGGGTGTAGCTTTGTGCATCCTCTCCAGTGGAGCGATCACCTGTGCCTCCCCCTCCCC  
TTGTTTTGCCCTGTGTGGTTGGTCAAGGAGGGATGTGAGGGAATAGGGACCCCCGACTTGCCCTCTGCCTC  
AGTCTTTCCCCACCTGTCTCTTCTTGTCTTCTCTGGAATGCCAAATACACGATGTGAATAAAGTACA  
ACGGCT

3754/6881  
**FIGURE 3463**

CCACAATAGGGGCAGACCTGTCCATCCTTCTCTGTGGGTCCCCTGTACCTTTCTCCCCAACAGGATCAGACCCA  
GAGGCAGCTGGTTGGGGTTTGTTCGAGAAGAAGGATTATCCAGATCAGTCCTTTCTAATCTCAGCTCCTGCCTGTA  
CCCTCCCATACTCACCAAACCTCTTCCCCACCACCTGAGCTGAGGAGCACAGTTTGAGGCCCCCAACCCCC  
CGCCGGTCGGGGCCAGGCCAGGCCAGGCCAGCTCCTCTGGCAGCAGAGCCTGGGCAGGTGACGGGCGGGCGGGG  
CGTCGCAGCTGAGGGAGTAAGGAGGCTCCAGGAACCGGAGCTGGAACCCGGCCGAGGTCCAGCCAGAGCCCAA  
GAGCCAGAGTGACCCCTCGACCTGTCTAGCCATGGGGGAGATGGAGCAACTGCGTCAGGAAGCGGAGCAGCTCAAG  
AAGCAGATTGCAGATGCCAGGAAAGCCTGTGCTGACGTTACTCTGGCAGAGCTGGTGTCTGGCCTAGAGGTGGTG  
GGACGAGTCCAGATGCGGACGCGGGGACGTTAAGGGGACACCTGGCCAAGATTTACGCCATGCACTGGGCCACT  
GATTCTAAGCTGCTGGTAAGTGCCTCGCAAGATGGGAAGCTGATCGTGTGGGACAGCTACACCACCAACAAGGTG  
CACGCCATCCCACTGCGCTCCTCCTGGGTCTGACCTGTGCTATGCCCCATCAGGGAACCTTTGTGGCATGTGGG  
GGGCTGGACAACATGIGTTCCATCTACAACCTCAAATCCCGTGAGGGCAATGTCAAGGTGAGCCGGGAGCTTTCT  
GCTCACACAGGTTATCTCTCCTGCTGCGGCTTCTCTGGATGACAACAATATTGTGACCAGCTCGGGGGACACCACG  
TGTGCCTTGTGGGACATTGAGACTGGGCAGCAGAAGACTGTATTTGTGGGACACACGGGTGACTGCATGAGCCTG  
GCTGTGTCTCCTGACTTCAATCTCTTCATTTCGGGGGCTGTGATGCCAGTGCCAAGCTCTGGGATGTGCGAGAG  
GGGACCTGCCGTGAGACTTTCACTGGCCACGAGTCGGACATCAACGCCATCTGTTTCTTCCCCAATGGAGAGGCC  
ATCTGCACGGGCTCGGATGACGCTTCTGCGGCTTGTGTTGACCTGCGGGCAGACCAGGAGCTGATCTGCTTCTCC  
CACGAGAGCATCATCTGCGGCATCAGCTCCGTGGCCTTCTCCCTCAGTGGCCGCCTACTATTGCTGGCTACGAC  
GACTTCAACTGCAATGTCTGGGACTCCAATGAAGTCTGAGCGTGTGGGCATCCTCTCTGGCCACGATAACAGGGTG  
AGCTGCCTGGGAGTCACAGCTGACGGGATGGCTGTGGCCACAGGTTCTTGGGACAGCTTCTCAAAATCTGGAAC  
TGAGGAGGCTGGAGAAAGGGAAGTGGAAGGCAGTGAACACACTCAGCAGCCCCCTGCCGACCCCATCTCATTCA  
GGTGTCTCTTCTATATTCCGGGTGCCATTCCCACTAAGCTTTCTCCTTTGAGGGCAGTGGGAGCATGGGACTG  
TGCCTTTGGGAGGCAGCATCAGGGACACAGGGGCAAAGAACTGCCCCATCTCCTCCCATGGCCTTCCCTCCCCAC  
AGTCCTCACAGCCTCTCCCTTAATGAGCAAGGACAACCTGCCCTCCCCAGCCCTTTGCAGGCCCAGCAGACTTG  
AGTCTGAGGCCCCAGGCCCTAGGATTCTCCCCCAGAGCCACTACCTTTGTCCAGGCCTGGGTGGTATAGGGCGT  
TTGGCCCTGTGACTATGGCTCTGGCACCCTAGGGTCTGGCCCTCTTCTTATTCATGCTTTCTCCTTTTCTAC  
CTTTTTTCTCTCCTAAGACACCTGCAATAAAGTGTAGCACCTGGTA

3755/6881

**FIGURE 3464**

MGEMEQLRQEAQLKKQIADARKACADVTLAELVSGLEVVGVRVQMRTTRTLRGHLAKIYAMHWATDSKLLVSASQ  
DGKLIVWDSYTTNKVHAIPLRSSWVMTCAYAPSGNFVACGGLDNMCSIYNLKSREGNVKVSRELSAHTGYLSCCR  
FLDDNNIVTSSGDTTCALWDIETGQQKT V FVGHTGDCMSLAVSPDFNLFISGACDASAKLWDVREGTCRQTFTGH  
ESDINAICFFPNGEAICTGSDDASCRLFDLRADQELICFSHESIICGITSVAFSLSGRLLFAGYDDFNCNVWDSM  
KSERVGILSGHDNRVSLGVTADGMAVATGSWDSFLKIWN



3756/6881  
**FIGURE 3465**

TACGCCCACAGTGAAGCATGCCAAGGTGTACACCTGGACTATCTGCAGTCGGGGATACACATCCCAGGAAACATA  
CCTTATGAAACATATGCGCAAACACAACCCGCCTGATCTTCAGCAACAGGTGCAGGCAGCAGCAGCAGCGGCAGC  
AGTGGCCCAGGCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCAGGCCAGGCCTC  
CCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACCACACTTCCA  
GTCTCTGGGGCAGCCCCCAGGGTGGGGGTGGTGGGGACAGCAATCCCAACCCTCCACCCAGTGTTCCTTGA  
CCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATCTGCCTCACTGTCACCACCAGCACCATCCAGGTGGA  
GCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTGGGAAGAGGAAGAAGTAGTCTGGTGTCTTCTTTC  
TCCAACCTCTTGGTGGGAAAAGTCCTTTTCTTCTTGACAGGCCTTGGCTCCATCTCCTTGGGCCTCTGTACGGC  
TTTCTTTCACAGGATACCATCCTTTTTCTGAACTCTTCTTCAAAGGAACATCAGCCCTCCTGATTGCAAAGGAA  
TACTGAGCTGATGGTGTTCATCCAGCAGCCTCCCTCCCAAGCAAAGCTTCTAAAAGTGGGGGTGGTGTCTCAAGG  
GAAGGATTGCTATGACCTCATAGAACCTTGTCAGTGTGGCCACTTACCCTATCCTTACCCTCCTTATCTTCAA  
AGTTTGGGCTGATGTAAGACTAGAGGCTGGCCCTCCAGATAACAGAGAAAAGGGAGCCCCAAATGCAACCAGCC  
TCTTGTCTATTCTTGCTTGCAAAGAACAGAGGTTTCTCAAATGCCTCAGTCCCTGAGAGCCATTTCTTCCCTT  
ACATCGTCTCACTTTGCTTCTTATTGACTGCTGGTAGAAGGAGATTTGGGGTAGGGGCTAGACCTCCTTTTATTT  
GAAGGGGGCAAGGGCTGAGATGTGGTCCCCAAGGGGCCAGAAATCCCAAGTTGGTCACAGGTGGCTTAGAAGTG  
TGTGTTATGGTTTTACGGATTTTCTTGAAGCCTCTCTCCTTCTCTGCCTACAAAGACCCTATACTCTCAGTCTCC  
CCAACCCACCCCAAGGAGCTGTGGGAGGCTTTGTGTTATCTGTGAACTCCAAACAGGGGTGTTGCGGAGAAG  
GGAGAGTTCAAGGCAAACGCAAGGACTGGACTTAGCTCCCTAGGTGCCACAGTCAGATGCCGGACACGGATTAT  
ATATAAATATATATATATAAATATATTATACTCACTCATCACGGCCATCTTTGTTGTAACCATTTCTGTGTTTAT  
AAATGCATTATCTCTGAGAATTTTCATATTTGATGTTTGTGTTATTTTGTCTTTTTTCCCTCTCTCCACCCC  
TGTCCTCTAGCCACAGCATTTTTCTTTTTGTC

3757/6881  
**FIGURE 3466**

GCCGAGGGGGGCGTACGGAGGTGGCAGCTGTGGGAGGAGGCGGCGTGGAAGGCCGAGGAGCTCAAGCCCGGACCA  
ATCCCCACGTTCCGGGGCCGCGACCTGACCCTGCAGCGTACCGGGAAGCGAAACCGGCCGGATGGGCCGCTGAGC  
CCGAATCGGGCACTGTGTGGAGCCCCCTGGAGCTGAGATCAGGATGTTCCGCTTCATGAGGGACGTGGAGCCTGA  
GGATCCCATGTTCTGTATGGATCCCTTTGCTATTACCGTCAGCATATGAGCCGTATGTTGTGAGGTGGCTTTGG  
ATATAGCCCCCTTCTCAGCATCACAGATGGCAACATGCCAGGGACCAGGCCTGCCAGCCGCGGATGCAGCAGGC  
TGGAGCTGTCTCCCCCTTTGGGATGCTGGGAATGTCGGGTGGTTTCATGGACATGTTTGGGATGATGAATGACAT  
GATTGGAAACATGGAACACATGACAGCTGGAGGCAATTGCCAGACCTTCTCATCTTCCACTGTCATCTCCTACTC  
CAATACGGGTGATGGTGCCCCAAGGTCTACCAAGAGACATCAGAGATGCGCTCGGCACCAGGCGGGATCCGGGA  
GACACGGAGGACTGTTCCGGGATTCAGACAGTGGACTGGAGCAGATGTCCATTGGGCATCACATCCGGGACAGGGC  
TCACATCCTCCAGCGCTCCCGAAACCATCGCACGGGGGACCAGGAGGAGCGGCAGGACTATATCAACCTGGATGA  
GAGTGAGGCCGAGCGTTTGATGACGAGTGGCGGCGGGAGACCTCCCGATTCCGGCAGCAGCGTCCCCTGGAGTT  
TCGGCGGCTTGAGTCTCAGGGGCTGGGGGACGAAGGGCGGAGGGGCCTCCCCGCCTGGCCATCCAGGGACCTGA  
GGACTCCCCTTCCCGACAGTCCCGCCGCTATGACTGGTGAAGGCCCGGGCCCTCAGCCTCTCTTGTACAGGCTGA  
GAGGCTGAGAAATCATCCCCTGAATAACTTTTTCTCTCGATTCCCATCCCCAATTTAATATTAAATTAACAGGC  
AAGCCGGCCCCACCTCTCCCTGGGGGTCTCAGGGAGAACCTTTCAGGGACCCCTTCCCTACCTTTTCTCTCTT  
TAATCTCCTGGTTTACCATTGATGACTTCGCCTCTGCATCTACTGACTTGATTTTTTATTCTGCCACTCCATCTT  
CAAACCCCTCACCTTTCCCATCCTACTCCTGCCATGCATTGAAGGGTCAATGCATTTTGGGGTGAGCTCTGGGT  
TTAGGGGGCCCCCTCCATCCCTCAGCTACCCTGGATCTTTGCCACCTCTTCTCAGAGCCCCACTGAGGGGCCG  
TAGCCCTATCTAGGGCTGTGGAAGGAGCAGACTGGTTCCTAACTCTCTCCCTCCTCCTGCCACACACATCAAAA  
GAATCTTCCCTACACCCTTCTCTGCCTTTATTTTTTGATTTGTGCAACTTGTAAGTGGTGGTTATGGAATAAAG  
GAGAATGAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3758/6881

**FIGURE 3467**

MFRFMRDVEPEDPMFLMDPFAIHRQHMSRMLSGGFGYSPFLSITDGNMPGTRPASRRMQQAGAVSPFGMLGMSGG  
FMDMFGMMNDMIGNMEHMTAGGNCQTFSSSTVISYSNTGDGAPKVYQETSEMRSAPGGIRETRRTVRDSDSGLEQ  
MSIGHHIRDRAHILQRSRNHRTGDQEERQDYINLDESEAAAFDDEWRRETSRFRQQRPLEFRRLLESSGAGGRRAE  
GPPRLAIQGPEDSPSRQSRRYDW

CCGGCTCCGGGTGACTCGGGCCAGTGTAGAGGTCCTCAGGCCCGCCGACAGGACAGCTGGGCCAATTCCTTGCC  
GGGAGCGGAAGGGGATGGCGTCCGGCCTGGGCTCCCCGTCCCCCTGCTCGGCGGCAGTGAGGAGGAGGATATGG  
ATGCACTTTTGAACAACAGCCTGCCCCACCCACCCAGAAAATGAAGAGGACCCAGAAGAGGATTTGTGAGAAA  
CAGAGACTCCAAAGCTCAAGAAGAAGAAAAAGCCTAAGAAACCTCGGGACCTAAAATCCCTAAGAGCAAGCGCC  
AAAAAAGGAGCGTATGCTCTTATGCCGGCAGCTGGGGGACAGCTCTGGGGAGGGGCCAGAGTTTGTGGAGGAGG  
AGGAAGAGGTGGCTCTGCGCTCAGACAGTGAGGGCAGCGACTATACTCTGGCAAGAAGAAGAAGAAGCTTG  
GACCTAAGAAAGAGAAGAAGAGCAAAATCCAAGCGGAAGGAGGAGGAGGAGGAGGATGATGATGATGATTCAA  
AGGAGCCTAAATCATCTGCTCAGCTCCTGGAAGACTGGGGCATGGAAGACATTGACCACGTGTTCTCAGAGGAGG  
ATTATCGAACCCTCACCAACTACAAGGCCTTCAGCCAGTTTGTGACACCCCTCATTGCTGCCAAAAATCCCAAGG  
TTGCTGTCTCCAAGATGATGATGGTTTTGGGTGCAAAATGGCGGGAGTTCAGTACCAATAACCCCTTCAAAGGCA  
GTTCTGGGGCATCAGTGGCAGCTGCGGCAGCAGCAGCGGTAGCTGTGGTGGAGAGCATGGTGACAGCCACTGAGG  
TTGACACCACCACCTCCCCCTGTGGAGGTGCCTATCCGCAAGGCCAAGACCAAGGAGGGCAAGGTCCCAATGCTC  
GGAGGAAGCCCAAGGCAGCCCTCGTGTACCTGATGCCAAGAAGCCTAAACCAAGAAAGTAGCTCCCCTGAAAA  
TCAAGCTGGGAGGTTTTGGTTCCAAGCGTAAGAGATCCTCGAGTGAGGATGATGACTTAGATGTGAATCTGACT  
TCGATGATGCCAGTATCAATAGCTATTCTGTTTCTGATGGTTCCACCAGCCGTAGTAGCCGCAGCCGCAAGAAAC  
TCCGAACCACTAAAAAGAAAAAGAAAGGCGAGGAGGAGGTGACTGCTGTGGATGGTTATGAGACAGACCACCAGG  
ACTATTGCGAGGTGTGCCAGCAAGGCGGTGAGATCATCTGTGTGATACCTGTCCCCGTGCTTACCACATGGTCT  
GCCTGGATCCCGACATGGAGAAGGCTCCCGAGGGCAAGTGGAGCTGCCACACTGCGAGAAGGAAGGCATCCAGT  
GGGAAGCTAAAGAGGACAATTCGGAGGGTGAGGAGATCCTGGAAGAGGTTGGGGGAGACCTCGAAGAGGAGGATG  
ACCACCATATGGAATTTCTGTGCGGTCTGCAAGGATGGTGGGGAACCTGCTCTGCTGTGATACCTGTCTTCTTCCT  
ACCACATCCACTGCTGAATCCCCCACTTCCAGAGATCCCCAACGGTGAATGGCTCTGTCCCCGTGTGACGTGTC  
CAGCTCTGAAGGGCAAAGTGACAGAAGATCCTAATCTGGAAGTGGGGTCAGCCACCATCTCCCACACCAGTGCCTC  
GGCCTCCAGATGCTGATCCCAACACGCCCTCCCCAAAGCCCTTGGAGGGGCGGCCAGAGCGGCAGTTCTTTGTGA  
AATGGCAAGGCATGTCTTACTGGCACTGCTCCTGGGTTTCTGAACTGCAGCTGGAGCTGCACTGTCAGGTGATGT  
TCCGAAACTATCAGCGGAAGAATGATATGGATGAGCCACCTTCTGGGGACTTTGGTGGTGTGTAAGAGAAAAGCC  
GAAAGCGAAAGAACAAGGACCCTAAATTTGCAGAGATGGAGGAACGCTTCTATCGCTATGGGATAAAACCCGAGT  
GGATGATGATCCACCGAATCCTCAACCACAGTGTTGGACAAGAAGGGCCACGTCCACTACTTGATCAAGTGGCGGG  
ACTTACCTTACGATCAGGCTTCTTGGGAGAGTGAGGATGTGGAGATCCAGGATTACGACCTGTTCAAGCAGAGCT  
ATTGGAATCACAGGGAGTTAATGAGGGGTGAGGAAGGCCGACCAGGCAAGAAGCTCAAGAAGGTGAAGCTTCGGA  
AGTTGGAGAGGCCTCCAGAAACGCCAACAGTTGATCCAACAGTGAAGTATGAGCGACAGCCAGAGTACCTGGATG  
CTACAGGTGGAACCTTGACCCCTATCAAATGGAGGGCCTGAATTGGTTGCGCTTCTCCTGGGCTCAGGGCACTG  
ACACCATCTTGGCTGATGAGATGGGCCTTGGGAAAACGTACAGACAGCAGTCTTCTGTATTCCCTTTACAAGG  
AGGGTCATTCCAAAGGCCCTTCTTAGTGAGCGCCCCCTTTCTACCATCATCAACTGGGAGCGGGAGTTTGAAG  
TGTGGGCTCCAGACATGTATGTGTAACCTATGTGGGTGACAAGGACAGCCGTGCCATCATCCGAGAGAATGAGT  
TCTCCTTTGAAGACAATGCCATTCTGTGGTGGAAGAAGGCTCCCGCATGAAGAAAGAGGCATCTGTGAAATTCC  
ATGTGCTGCTGACATCCTATGAATTGATCACCATTGACATGGCTATTTTGGGCTCTATTGATTGGGCCTGCCTCA  
TCGTGGATGAAGCCCATCGGCTGAAGAACAAATCAGTCTAAGTTCTTCCGGGTATTGAATGGTTACTACTCCAGC  
ACAAGCTGTTGCTGACTGGGACACCATTACAAAACAATCTGGAAGAGTTGTTTCATCTGCTCAACTTTCTCACC  
CCGAGAGGTTCCACAATTTGGAAGGTTTTTTGGAGGAGTTTGTGTGACATTGCCAAGGAGGACAGATAAAAAAAC  
TGATGACATGCTGTGGGCCGCACATGTTGCGGCGGCTCAAAGCCGATGTGTTCAGAAGACTGCCCTCCAAGACAG  
AACTAATTGTGCTGTGGAGCTGAGCCATGTCAGAAGAAATACTACAAGTACCTCCTCACTCGAAATTTTGAAG  
CACTCAATGCCCCAGGTGGTGGCAACCAGGTGTCTCTGTGTAATGTGGTGATGGATCTTAAGAAGTGCTGCAACC  
ATCCATACCTCTTCCCTGTGGCTGCAATGGAAGCTCCTAAGATGCCTAATGGCATGTATGATGGCAGTGCCTAA  
TCAGAGCATCTGGGAAATTATTGCTGCTGCAGAAAATGCTCAAGAACCTTAAGGAGGGTGGGCATCGTGTACTCA  
TCTTTTCCAGATGACCAAGATGCTAGACCTGCTAGAGGATTTCTTGGAACTGAAGGTTATAAATACGAACGCA  
TCGATGGTGGAACTACTGGGAACATGCGGCAAGAGGCCATTGACCGCTTCAATGCACCGGGTGCTCAGCAGTTCT  
GCTTCTTGCTTICCCTCGAGCTGGGGGCCCTTGGAAATCAATCTGGCCACTGCTGACACAGTTATTATCTATGACT  
CTGACTGGAACCCCCATAATGACATTCAGGCCTTTAGCAGAGCTCACCAGGATTGGGCAAAAATAAAAGGTAATG

3760/6881  
**FIGURE 3468B**

TCTACCGGTTTGTGACCCGTGCGTCAGTGGAGGAGCGCATCACGCAGGTGGCAAAGAAGAAAATGATGCTGACGC  
ATCTAGTGGTGCGGCCTGGGCTGGGCTCCAAGACTGGATCTATGTCCAAACAGGAGCTTGATGATATCCTCAAAT  
TTGGCACTGAGGAACTATTCAAGGATGAAGCCACTGATGGAGGAGGAGACAACAAAGAGGGAGAAGATAGCAGTG  
TTATCCACTACGATGATAAGGCCATTGAACGGCTGCTAGACCGTAACCAGGATGAGACTGAAGACACAGAATTGC  
AGGGCATGAATGAATATTTGAGCTCATTCAAAGTGGCCAGTATGTGGTACGGGAAGAAGAAATGGGGGAGGAAG  
AGGAGGTAGAACGGGAAATCATTAAACAGGAAGAAAGTGTGGATCCTGACTACTGGGAGAAATTGCTGCGGCACC  
ATTATGAGCAGCAGCAAGAAGATCTAGCCCGAAATCTGGGCAAAGGAAAAAGAATCCGTAAACAGGTCAACTACA  
ATGATGGCTCCCAGGAGGACCGAGATTGGCAGGACGACCAGTCCGACAACCAGTCCGATTACTCAGTGGCTTCAG  
AGGAAGGTGATGAAGACTTTGATGAACGTTCAGAAGTCCCCGTAGGCCAGTCTGTAAGGGCTGCGGAATGATA  
AAGATAAGCCATTGCCCTCCTCTGTTGGCCCGTGTGGTGGGAATATTGAAGTACTTGGTTTTAATGCTCGTCAGC  
GAAAAGCCTTTCTTAATGCAATTATGCGATATGGTATGCCACCTCAGGATGCTTTTACTACCCAGTGGCTTGTA  
GAGACCTGCGAGGCAAATCAGAGAAAGAGTTCAAGGCATATGTCTCTCTTTTCATGCGGCATTATGTGAGCCGG  
GGGCAGATGGGGCTGAGACCTTTGCTGATGGTGTCCCCGAGAAGGCCTGTCTCGCCAGCATGTCCTTACTAGAA  
TTGGTGTATGTCTTTGATTGCGAAGAAGTTTCAGGAGTTGAACATGTTAATGGGCGCTGGAGCATGCCTGAAC  
TGGCTGAGGTGGAGGAAAAACAAGAAGATGTCCAGCCAGGGTCACCCTCCCCAAAACTCCTACACCCTCCACTC  
CAGGGGACACGCAGCCCAACTCCTGCACCTGTCCACCTGCTGAAGATGGGATAAAAATAGAGGAAAATAGCC  
TCAAAGAAGAAGAGAGCATAGAAGGAGAAAAGGAGGTTAAATCTACAGCCCCTGAGACTGCCATTGAGTGTACAC  
AGGCCCTGCCCCCTGCCTCAGAGGATGAAAAGGTCGTTGTTGAACCCCTGAGGGAGAGGAGAAAGTGGAAAAGG  
CAGAGGTGAAGGAGAGAACAGAGGAACCTATGGAGACAGAGCCCAAAGGTGCTGCTGATGTAGAGAAGGTGGAGG  
AAAAGTCAGCAATAGATCTGACCCCTATTGTGGTAGAAGACAAAGAAGAGAAGAAAGAAGAGAAAAAAG  
AGGTGATGCTTCAGAATGGAGAGACCCCAAGGACCTGAATGATGAGAAACAGAAGAAAAATATTAACAACGTT  
TCATGTTTAACATTGCAGATGGTGGTTTTACTGAGTTGCACTCCCTTTGGCAGAATGAAGAGCGGGCAGCCACAG  
TTACCAAGAAGACTTATGAGATCTGGCATCGACGGCATGACTACTGGCTGCTAGCCGGCATTATAAACCATGGCT  
ATGCCCGGTGGCAAGACATCCAGAATGACCCACGCTATGCCATCCTCAATGAGCCTTTCAAGGGTGAAATGAACC  
GTGGCAATTTCTTAGAGATCAAGAATAAATTTCTAGCTCGAAGGTTTAAGCTCTTAGAACAAGCTCTGGTGATTG  
AGGAACAGCTGCGCCGGGCTGCTTACTTGAACATGTGAGAAGACCCCTTCTCACCCCTTCATGGCCCTCAACACCC  
GCTTTGCTGAGGTGGAGTGTGTTGGCGGAAAGTCATCAGCACCTGTCCAAGGAGTCAATGGCAGGAAACAAGCCAG  
CCAATGCAGTCTGCACAAAGTTCTGAAACAGCTGGAAGAACTGCTGAGTGACATGAAAGCTGATGTGACTCGAC  
TCCCAGCTACCAATTGCCCGAATTCCCCCAGTGTCTGTGAGGTTACAGATGTCAGAGCGTAACATTCTCAGCCGCC  
TGGCAAACCGGGCACCCGAACCTACCCACAGCAGGTAGCCAGCAGCAGTGAAGATGCAGACTGATAACCACCTC  
CACCGCTGAGCAGTGACCTTCCTCCTTTCTCTTGTCCCAGCTTCTCCCCCTGGGGGCTGAGAGACCCCTCACCTT  
CCTTCTGCCCATCTTCCATGTTGTAAAGGAACAGCCCCAGTGCAGTGGGGGAGGGGAGGGAGTGAGGGGCAGTGG  
TGCCCTTCTGTCAGAAGAGACATGCAGCAGTAGCGCTGGCGCCATCTGCAGGAGCTGGCGGGCTGGCCTTCTGGA  
CCCTGGCTTCTCCCCACTGTAACGCCTGTTACACACAACTGTTGTGGGTTCTGCCAGGCTTGAAGAAAATGAT  
CTGAATTTTTCTCCTTTTTGGTTTTATTTTGTGGTTTTATTTTGTGTTTTCTTTTCTCCTTTTTTGGGGGTATT  
CAGAGTGGGCTGGGCCCCCTGGGCGAGACACAGCTACCTCTGTTGGCATCTTTTAATACCAGGAACCCAGCGGCT  
CTAGCCACTGAGCGGCTAAATGAAATAAAGTGGAAAAAAGGAAAAAACCAAAAGCATAAAAACCAC  
AGCAAATTTCTTGATGAAAATTGAAAATAAAGTTTCTTGT

3761/6881  
**FIGURE 3469**

MASGLGSPSPCSAGSEEDMDALLNNSLPPPHPENEEDEEDLSETETPKLKKKKKPKKPRDPKIPKSKRQKKER  
MLLCRQLGDSSGEGPEFVEEEEEEVALRSDSEGSYTPGKKKKKLGPKKEKSKSKRKEEEEDDDDDDSKEPKS  
SAQILLEDWGMEDIDHVFSEEDYRTLTYKAFSQFVRPLIAAKNPKIAVSKMMVLGAKWREFSTNNPFKGSSGAS  
VAAAAAAVAVVESMTATEVAPPPPPVEVP IRKAKTKEGKGNARRKPKGSPRVDAKKPKPKVAPLKIKLGG  
FGSKRRSSSEDDDLVESDFDDASINSYSVSDGSTSRSSRSRKKLRITTKKKKKGEEVTAVDGYETHQDYCEV  
CQQGGEIILCDTCPRAYHMCVCLDPDMEKAPEGKWSCPHCEKEGIQWEAKEDNSEGEEILEEVGGDLEEDDDHME  
FCRVCKDGGELLCCDTCPPSSYHIHCLNPPLPEIPNGEWLCPRCTCPALKGKVQKILIWKGQPPSPTPVPRPPDA  
DPNTPSPKPLEGRPERQFFVKWQMSYWHCSWVSELQLELHCQVMFRNYQRKNDMEPPSGDFGGDEEKSRRKN  
KDPKFAEMEERFYRYGIKPEWMMIHRILNHSVDKKGHVHYLIKWRDLPYDQASWESEDVEIQDYDLFKQSYWNHR  
ELMRGEEGRPGKKLKKVLRKLERPPETPTVDPTVKYERQPEYLDATGGTLHPYQMEGLNWLRFSWAQGTDTILA  
DEMGLGKTQVQTAFLYSLYKEGHSKGPFLVSAPLSTIINWEREFEMWAPDMYVVTYVGDKDSRAIIRENEFSFED  
NAIRGGKKASRMKKEASVKFHVLLTSYELITIDMAILGSIDWACLIVDEAHLKNNQSKFFRVNLGYSLQHKL  
TGTPLONNLEELFHLLNFLTPERFHNLEGFLEEFADIKEDQIKKLHMLGPHMLRRLKADVFNMPSKTELIVR  
VELSPMQKKYKYILTRNFEALNARGGGNQVSLNVMDLKKCCNHPYLPVAAMEAPKMPNGMYDGSALIRASG  
KLLLLQKMLKNLKEGGHRLVIFSQMTKMLDLEDFLEHEGYKYERIDGGITGNMRQEAIDRFNAPGAQQFCFLS  
TRAGGLGINLATADTVIYDSDWNPHNDIQAFSRAHRIGONKKVMIYRFVTRASVEERITQVAKKKMMLTHLVVR  
PGLGSKTGSMKQELDDILKFGTEELFKDEATDGGGDNKEGEDSSVIHYDDKAIERLLDRNQDETETELQGMNE  
YLSSFQVQYVVRREEEMGEEEEVEREIIKQEESVDPDYWEKLLRHHEEQQEDLARNLGKGRIRKQVNYNDGSQ  
EDRDWQDDQSDNQSDYSVASEEGDEDFDERSEAPRRPSRKGLRNDKDKPLPPLARVGGNIEVLGFNARQRKAF  
NAIMRYGMPPQDAFTTQWLVRDLRGKSEKEFKAYVSLFMRHLCEPGADGAETFADGVPREGLSRQHVLRIGVMS  
LIRKKVQEFHVNGRWSMPELAEVEENKKMSQPGSPSKPTPTPSTPGDTQPNTPAPVPPAEDGKIEENSLKEE  
SIEGEKEVKSTAPETAIECTQAPAPASEDEKVVEPPEGEEKVEKAEVKERTEEPMETEPKGAADVEKVEEKSAI  
DLTPIVEDKEEKKKEEKKVMLQNGETPKDLNDEKQKKNIKQRFMFNIADGGFTELHSLWQNEERAATVTKKT  
YEIWHRRHDYWLLAGIINHGYARWQDIQNDPRYAILNEPFGEMNRGNFLEIKNKFLARRFKLLEQALVIEEQLR  
RAAYLNMSDEPSHPSMALNTRFAEVECLAESHQHSKESMAGNKPANAVLHKVLKQLEELLSDMKADVTRLPATI  
ARIPPAVRLQMSERNILSRANRAPEPTPQQVAQQQ

3762/6881  
**FIGURE 3470**

CACCGGCTGTCATCTCCAGCAGAAGGCGCAGCC**ATGA**TATCCGTTATTTCGGCCCCAACCTCTTCCTCCTGCAGCA  
GGAGCAGCAGGGCCTGGCCGGGCCACTGGGGGACTCACTGGGAGGCGACCACTTCGCCGGGGGAGGAGACTTGCC  
CCCGGGCGCTCTCTCGCCGGCCGGCCCTGCTGCTACTCGCCGCCCGGGCCGGGCCCCGGCCCTGCCGCCAT  
GGCCCTCCGCAATGACCTGGGCTCCAACATCAACGTGCTCAAGACCCTGAACCTCCGGTTCCGCTGCTTCCTGGC  
CAAGGTGCATGAGCTGGAGCGCCGGAACCGGCTGTTGGAGAAGCAACTGCAGCAAGCGCTGGAGGAGGTAAGCA  
GGGCCGGCGGGGCTGGGTGCTCGCGACCAGGCAGTGCAGACCGGCTTCGTAGCCCCATCCGGCCCCCTGGGGCT  
GCAGCTGGGCGCCCGGCCGGCCGCTGTCTGCAGCCCTTCGGCGCGCTGCTGGGCTCGCCCGCGCGCTCCCCGGC  
CGGCCCCCTCGCGCCCTCCGCGGCCAGCCTCTCGTCTCTCCACCTCCACCTCCACCACCTATTCTCGTCGGC  
CCGCTTCATGCCCGGCACCATCTGGTCTGTTCTCGCACGCCCGCCGGCTCGGGCCGGGACTGGAGCCCACTCTGGT  
GCAAGGGCCTGGCTTGTCTGGGTGCACCCGGATGGGGTGGGCGTCCAGATCGACACCATCACGCCCGAGATCCG  
CGCTCTCTACAACGTGCTGGCCAAAGTGAAGCGGGAGCGGGACGAGTACAAGCGGAGATGCTTTTACAGGGTTAA  
**ATGA**TACCACAAGAGGCAGGGCAGCGGGCTCGACGAGCTCTGTTCTGGTGCGGGCAGGAGGCGGGAGCCCCGATC  
TGTGCGACTGAAGGTGGGAAGAGGAGTACACGGTGCAGTCCAGCTGCAAGACCGTGTAAATGAGCTCCAGGAGG  
AAGCCCAGGAGGCTGATGCTTCCAGGAGGAGCTGGCACTGAAGGTGGAACAGTTGAAGGCTGAGCTGGTGGTCT  
TCAAGGGGCTCATGAGTAACAACCTGTGCGAGCTGGACACCAAGATCCAGGAGAAAGCCATGAAGGTGGATATGG  
ACATCTGCCGCCGCATCGACATCACCGCCAAGCTCTGCGATGTGGCTCAGCAGCGCAACTGCGAGGACATGATCC  
AGATGTTCCAGGTCCCATCCATGGGGGGGCGGAAGCGGGAGCGCAAGGCTGCCGTGAGGAGGACACCTCCCTGT  
CGGAGAGTGAGGGGCCCCGCCAGCCCGATGGGGATGAGGAGGAGAGCACAGCCCTCAGCATCAACGAGGAGATGC  
AGCGCATGCTCAACCAGCTGAGGGAGTATGATTTTGAGGACGACTGTGACAGCCTGACTGGGAGGAGACTGAGG  
AGACCTGCTGCTTTGGGAGGATTTCTCAGGCTATGCCATGGCAGCTGCAGAGGCCAGGGAGAGCAGCAGGAAG  
ATAGCCTGGAGAAGGTGATTAAAGATACGGAGTCCCTGTTCAAAACCCGGGAGAAGGAGTATCAGGAGACCATTG  
ACCAGATAGAGCTGGAGTTGGCCACGGCCAAGAACGACATGAACCGGCACCTGCACGAGTACATGGAGATGTGCA  
GCATGAAGCGCGGCTGGACGTGCAGATGGAGACCTGCCCGGGCTCATACCCAGTCTGGAGACCGAAAGTCTC  
CTGCTTTCACTGCGGTCCCGCTTAGCGACCCGCCGCCGCCCAAGCGAGGCTGAGGACTCCGATCGCGATGTCT  
CATCTGACAGCTCCATGAGATAGAGACCTGCCTCCCCCTTGACCCGAGGCCCTCGCAGCAGGGAGCTCAGCGAG  
GCAGAGGGTGGGGCTGCACAGAGGGGAACATCAGCTGCAGCTCTGCACCAGGCCGCTCCCTGGGGACTGGGGCGC  
TCCCTCCCTCAGGCTTTCTCCCTCAGTCTTGCTTCTCCAGGCTCTGGGGTGTCTGGAGCTAGGCTTGCCCTAC  
CATTCTGGGGCCATTTCCACCACAGTTGGGGCTCTCCTGCCTTCACGCGTGGGTGTCTGCTACTTCCCCATCTTT  
AAAATGCTGCCAGAGCGATTGCGGCCCTCACCTTGTCACGTATCAGGAATGTGAATGTGGGACCTTTCTCCCA  
TCCCTGTTGTCCGAGCCAGCTCACTGTCTCCACACTGGTGCTAACTGGCCAGGCACTGGAGTGGAATAGAAT  
GCAGCTGGAGGCTACGCATGGCCTCTGCAGCACACGCAGCTGGAGAGGGCTTCTGTCCCTGTGACGGCAGAGGG  
CGTTGGGGCTGGCCGGGGCACCTTGTCCTGCTATGGTCCACATGCTCACGCTGTCCACCTGCCAGGTGGAGTGT  
ATGTGGCTGTGGCCCTCCCTCGTGGAGGTGCCGTGCTTTAAAGAGGCCTTAGTGCCCGGATGGGCACAGTGT  
TGAAGGGAGGTGGGAGCTCTGCTCTCCTGGTCACTGCAGAAATGACAGAGAAGGTGAAGCTCCATGCATGTGTGC  
GCGGGTGTATGTGCGCTCAGGGTCTCTGTTAAGTATCAGCTAAAGATGTGCTTCCCTCCGTGCTGTGCATACACT  
GAGACCAACAGGCTACAGTGTCCCTGATTCTTGGAAAAGCCTGGAGAAGCTGGGGAGATGCGGTTCACAATGCCT  
CGGTATAGGAGGCTGTGTTGAGCTGACATTCAAATGGATTCTTTAATAATAATGAACTGGCGAGTAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3763/6881  
**FIGURE 3471**

MNPLFGPNLFLLQQEQQGLAGPLGDSLGGDHFAGGGDLPPAPLSPAGPAAYSPPGPGPAPPAAMALRNDLGSNIN  
VLKTLNLRFRFCFLAKVHELERRNRLLEKQLQQALEEGKQGRRGLGRRDQAVQTGFVSPIRPLGLQLGARPAAVCS  
PSARVLGSPARSPAGPLAPSAASLSSSSTSTSTTYSSSARFMPGTIWSFSHARRLGPGLEPTLVQGPGLSWVHPD  
GVGVQIDTITPEIRALYNVLAKVKRERDEYKRRCFYRVK



3764/6881  
**FIGURE 3472**

GGTTGAGCACAGGGTACTTTATTGATGGTACATGACAAGGTGCGGCTCCCTAGGCCCCCTCCCCTCTTCAAGGGGT  
CTACATGGCAACTGTGAGGAGGGGAGATTTCAGTGTGGTGGGGGACTGAGTGTGGCAGGGACTCCCCAGCAGTGAG  
GGTCTCTCTCTTCTCTTGTGCTCTTGCTGGGGCTGGTGGTCCAGGGGTCTTACTCCTTGGAGGCCATGTGGGCC  
ATGAGGTCCACCACCCTGTTGCTGTAGCCAAATTCGTTGTCATACCAGGAAATGAGCTTGACAAAGTGGTCGTTG  
AGGGCAATGCCAGCCCCAGCGTCAAAGGTGGAGGAGTGGGTGTCGCTGTTGAAGTCAGAGGAGACCACCTGGTGC  
TCAGTGTAGCCCAGGATGCCCTTGAGGGGGCCCTCCGACGCCCTGCTTCACCACCTTCTTGATGTCATCATATTTG  
GCAGGTTTTTCTAGACGGCAGGTGAGGTCCACCCTGACACGTTGGCAGTGGGGACACGGAAGGCCATGCCAGTG  
AGCTTCCCGTTCAGCTCAGGGATGACCTTGCCACAGCCTTGGCAGCGCCAGTAGAGGCAGGGATGATGTTCTGG  
AGAGCCCCGCGGCCATCACGCCACAGTTTCCCGGAGGGGCCATCCACAGTCTTCTGGGTGGCAGTGATGGCATGG  
ACTGTGGTCATGAGTCCTTCCACGATACCAAAGTTGTCATGGATGACCTTGGCCAGGGGTGCTAAGCAGTTGGTG  
GTGCAGGAGGCATTGCTGATGATCTTGAGGCTGTGTCATACTTCTCATGGTTCACACCCATGACGAACATGGGG  
GCATCAGCAGAGGGGGCAGAGATGATGACCCTTTTGGCTCCCCCTGCAAATGAACCCAGCCTTCTCCATGGTG  
GTGAAGACGCCAGTGGACTCCACGACGTACTCAGCGCCAGCATCGCCCCACTTGATTTGGAGGGATCTCACTCC  
TGGAAGATGGTGATGGGATTTCCATTGATGACAAGCTTCCCGTTCTCAGCCTTGACGGTGCCATGGAATTTGCCA  
TGGGTGGAATCATATTGGAACATGTAAACCATGTAGTTGAGGTCAATGAAGGGGTCATTGATGGCAACAATATCC  
ACTTTACCAGAGTTAAAAGCAGCCCTGGTGACCAGGCGCCCAATACGACCAAATCCGTTGACTCCGACCTTCACC  
TTCCCCATGGTGTCTGAGCGATGTGGCTCGGCTGGCGACGCAAAAGAAGATGCGGCTGACTGTCGAAC

3765/6881  
**FIGURE 3473**

CTCTCTGCTCCTCCTGTTGACAGTCAGCCGCATCTTCTTTTGGCTCGCCAGCCGAGCCACATCGCTCAGACACC  
ATGGGGAAGGTGAAGGTCGGAGTCAACGGATTGGTCGTATTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCT  
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTCAACTACATGGTTTACATGTTCCAATATGAT  
TCCACCCATGGCAAATTCCATGGCACCGTCAAGGCTGAGAACGGGAAGCTTGTATCAATGGAAATCCCATCACC  
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTCGTGGAGTCCACTGGC  
GTCTTACCACCATGGAGAAGGCTGGGGCTCATTTCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT  
GCTGATGCCCCCATGTTTCGTATGGGTGTGAACCATGAGAAGTATGACAACAGCCTCAAGATCATCAGCAATGCC  
TCCTGCACCACCAACTGCTTAGCACCCCTGGCCAAGGTCATCCATGACAACCTTGGTATCGTGAAGGACTCATG  
ACCACAGTCCATGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCCCTCCGGGAAACTGTGGCGTGATGGCCGC  
GGGGCTCTCCAGAACATCATCCCTGCCTCTACTGGCGCTGCCAAGGCTGTGGGCAAGGTCATCCCTGAGCTGAAC  
GGGAAGCTCACTGGCATGGCCTTCCGTGTCCCCACTGCCAACGTGTCAGTGGTGGACCTGACCTGCCGTCTAGAA  
AAACCTGCCAAATATGATGACATCAAGAAGGTGGTGAAGCAGGCGTCGGAGGGCCCCCTCAAGGGCATCCTGGGC  
TACACTGAGCACCAGGTGGTCTCCTCTGACTTCAACAGCGACACCCACTCCTCCACCTTTGACGCTGGGGCTGGC  
ATTGCCCTCAACGACCACTTGTCAAGCTCATTTCTGGTATGACAACGAATTTGGCTACAGCAACAGGGTGGTG  
GACCTCATGGCCACATGGCCTCCAAGGAGTTAAGACCCCTGGACCACCAGCCCCAGCAAGAGCACAAGAGGAAGA  
GAGAGACCCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCCACCACACTGAATCTCCCCTCCTCACAGTTG  
CCAATGTAGACCCCTTGAAGAGGGGAGGGGCTAGGGAGCCGCACCTTGTCATGTACCATCAATAAAGTACCCTGT  
GCTCAACC

3766/6881

**FIGURE 3474**

MGKVKGVNGFGRIGRLVTRAAFNSGKVDIVAINDPFIDLNYMVYMFQYDSTHGKFHGTVKAENGLVINGNPIT  
IFQERDPSKIKWGDAGAEYVVESTGVFTTMEKAGAHLQGGAKRVIISAPSADAPMFVMGVNHEKYDNSLKIISNA  
SCTTNCLAPLAKVIHDNFGIVEGLMTTVHAITATQKTVDGPSGKLWRDGRGALQNIIPASTGAAKAVGKVIPELN  
GKLTGMAFRVPTANVSVDLTCRLEKPAKYDDIKKVVKQASEGPLKGILGYTEHQVVSDFNSDTHSSTFDAGAG  
IALNDHFVKLISWYDNEFGYSNRVVDLMAHMASKE

3767/6881  
**FIGURE 3475A**

AAGTTTTGGAGCGCCGGACAAGCTGAGGTCCGCGACTCGTCGCTAAGATTCCCCAAAAGTGAAGATTTCAGAAAA  
TTCACCCTTTCCGCTTTCTTTGGCGTCCTTCAACCGTGAAGGAAATGAAGGTTGAGAACCTGGAACCCGCTTCCA  
ATGACCAAGCCCTTTCTCTGTGCTCACAACAGTCTTCCGCTGTAGCTGTTTTTATTACCCCTATTTTACTACTG  
GGGAGGAGATTGAGGTCCGTGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
TTAGAGGCGATGCCTTCTAACTCCAGCGTGGACTTGCTTCCCTTCCCTGGGGGTGACTGAATGCCAGCCAGGGA  
CGCGACGTCTCTGCCCAGCAGAAATACGGCCTCCTCCCCGCCGACTGGGCAAAGGGGGACCTTGCGGCCAAGGAG  
GGATTGCGAGGCGGGCCGGGGTGGGAGCGGGGGCCGGAGCCGGAGCCTTGGCCCGCCCCGGGCGCGCTGTGA  
TTGGCCGGCGCTCCGGCGGGCGTCCGATTGGCCGCTCGCAGCCGTTGAGATTGAAGTCCGTTATTGTGGCT  
TTGCCCGCGCGTGGCCAGACTCAGAGGCGGCCCTTGCCTCTGCTGCGGGGATTGGCCGGATTCTCCGCCGAC  
TTGAAAAGTGCCTTGCTAATTGGTGGCTGTTGTGCACGCGTGTTCCTTTTCAATTCAGCCTGACTGCCGGA  
ATCAGAGCCGCGGGTGAGATCCCCAGCCCTGTGAGCCTGTAGGAGTAGAATGGCTCCCCAAATGTATGAGTTCCA  
TCTGCCATTATCCCCAGAGGAGTTGTTGAAAAGTGGAGGGGTGAATCAGTATGTTGTGAAGAGGTACTGTCCAT  
CAAACATCTTCCACCACAGCTTAGAGCTTTTCAGGCTGCCTTTCGAGCTCAGGGGCCCTGGCTATGCTGCAGCA  
CTTTGATACTATCTACAGCATTTCATCATTTCGAAGTATAGATCCTGGCCTCAAAGAAGATACCTGCAATT  
CCTGATAAAAGTGGTATCCCGCCACTCCAGGAGCTTCAGCTATCCTGGATGATACAACTTTGAGTGGATCAGA  
TAGAAACGCCCATCTAAATGCCCTCAAATGAAGTGTATGCTCTGATACGTCTCCTGGAATCCTTTGAGACCAT  
GGCCAGCCAGACAAACCTTGTGGACCTGGACCTTGGTGGGAAGGTAAGAAAGCTCGGACCAAGGCAGCCCATGG  
CTTTGACTGGGAAGAAGAGAGGCAACCAATTCCTCAGCTTTTAAACAGCTACTTCAGTTGGACATCCGTCACCT  
GTGGAACCACTCAATAATTGAAGAAGAATTTGTGAGTTTGGTTACTGGCTGTTGCTACCGCCTTCTGGAGAATCC  
CACCATTAAATCACCAGAAGAACCAGCCCACTCGGGAAGCCATAACACACCTGCTTGGTGTAGCCTTGACCCGTTA  
TAACCATATGCTCAGTGCTACAGTGAAGATCATCCAGATGCTGCAGCACTTTGAACACCTGGCACCTGTACTGGT  
TGCAGCCGTGAGTCTATGGGCAACTGACTATGGAATGAAGAGCATAGTGGGAGAGATTGTAAGAGAGATTGGACA  
AAAGTGTCCCCAAGAGCTGAGTCGAGACCCCTCAGGGACAAAGGGCTTTGCAGCATTCCTGACAGAACTAGCAGA  
ACGTGTCCAGCTATCCTGATGTCCAGCATGTGCATTTTGTAGATCACCTGGATGGAGAAAATTACATGATGCG  
TAATGCTGTGCTGGCAGCATGGCGGAGATGGTGTGAGGTTCTCAGTGGCGATCAACTGGAAGCAGCAGCCCG  
AGACACCAGAGACCAGTTCTTGATACCTTTACAAGCCCATGGCCATGATGTCAACTCCTTTGTGCGGAGCCGTGT  
TTTGAGCTCTTACCCGAATTGTCCAGCAGAAGGCTCTCCCCCTGACACGTTTCCAGGCAGTGGTGGCTTTAGC  
TGTGGGACGTCTGGCAGACAAGTCAAGTGTAGTATGTAATAATGCCATCCAGCTGCTGGCCAGTTTCTAGCCAA  
TAATCCTTTCTCCTGCAAGCTTAGTGATGCTGACCTTGCCGGACCACTGCAGAAGGAGACCCAGAAATTACAAGA  
GATGAGGGCCAGAGGCGAAGTGCAGCAGCTTCTGAGTGTGGACCCAGAGGAGGAGTGGGAAGCCATGCTGCC  
AGAGTTGAAGTCTACCTGCAGCAGCTTCTACAGCTTCCCCAGGGAGAGGAGGAGATTCTGAGCAAAATTGCCAA  
TACAGAGACAAGTGAAGATGTGAAAGGACGCATCTATCAACTGCTTGCCAAAGCTAGTTACAAAAGGCCATCAT  
TCTCACTCGAGAAGCCACAGGCCACTTCCAGGAGTCCGAACCTTCAGTCATATAGACCCAGAGGAGTCAGAGGA  
GACCAGGCTCTTGAATATCTTAGGACTTATCTTCAAAGGCCAGCAGCTTCCACACAAGAAAAGAAATCCCCGGGA  
GTCTACAGGAACATGGTCACAGGACAGACTGTCTGTAAAAATAAACCCAATATGTCGGATCCTGAGGAATCCAG  
GGGAAATGATGAACTAGTGAAGCAGGAGATGCTGGTACAGTATCTGCAGGATGCCTACAGCTTCTCCCGGAAGAT  
TACAGAGGCCATTGGCATCATCAGCAAGATGATGTATGAAAACACAACCTACAGTGGTGCAGGAGGTGATTGAATT  
CTTTGTGATGGTCTTCCAATTTGGGGTACCCAGGCCCTGTTTGGGGTGGCGCGTATGCTGCCTCTCATCTGGTC  
TAAGGAGCCTGGTGTCCGGGAAGCCGTGCTTAATGCCTACCGCCAACCTACCTCAACCCCAAAGGGGACTCTGC  
CAGAGCCAAGGCCAGGCTTTGATTGAGAATCTCTCTGCTGCTAGTGGATGCCTCGGTTGGGACCATTCAGTG  
TCTTGAGGAAATCTCTGTGAGTTTGTGCAGAAGGATGAGTTGAAACCAGCAGTGACCCAGCTGCTGTGGGAGCG  
GGCCACCGAGAAGGTGCGCTGCTGTCTGAGCGCTGTTCCTCTGTCATGCTTCTTGGCATGATGGCAGGAG  
AAAGCCAGAAATGTGGGAAGCAATTTAGACACACTGGTGAAGATAGGGCTGGATGAGAAGTTTCCACAGGACTA  
CAGGCTGGCCAGCAGGTGTGCCATGCCATTGCCAACATCTCGGACAGGAGAAAGCCTTCTCTGGGCAACGTCA  
CCCCCCTTCCGGCTGCCTCAGGAACACAGGTTGTTTGAAGGAGTGGGAGAGCAGTCACAAAAGGCTTTGTCCA  
CCCAGACCCACTCTGGATCCCATTCAAAGAGGTGGCAGTGACCTCATTTACCAACTGGCAGAGGGCCCCGAAGT  
GATCTGTGCCAGATATTGCAGGGCTGTGCAAAACAGGCCCTGGAGAAGCTAGAAGAGAAGAGAACCAGTCAGGA  
GGACCCGAAGGAGTCCCCCGCAATGCTCCCCACTTTCCTGTTGATGAACCTGCTGTCCCTGGCTGGGGATGTGGC

3768/6881  
**FIGURE 3475B**

TCTGCAGCAGCTGGTCCACTTGGAGCAGGCAGTGAGTGGAGAGCTCTGCCGGCGCCGAGTTCTCCGGGAAGAACA  
GGAGCACAAAGACCAAAGATCCCAAGGAGAAGAATACGAGCTCTGAGACCACCATGGAGGAGGAGCTGGGGCTGGT  
TGGGGCAACAGCAGATGACACAGAGGCAGAACTAATCCGTGGCATCTGCGAGATGGAACGTGTGGATGGCAAACA  
GACACTGGCTGCCTTTGTTCCTCTTGGCTTAAAGTCTGTAAACAACCCAGGCCTCTATAGCAACCCAGACCTCTC  
TGCAGCTGCTTCACTTGGCCTTGGCAAGTTCTGCATGATCAGTGCCACTTTCTGCGACTCCCAGCTTCGTCTTCT  
GTTCCACATGCTGGAAAAGTCTCCACTTCCCATTGTCCGGTCTAACCTCATGGTTGCCACTGGGGATCTGGCCAT  
CCGCTTTCCCAATCTGGTGGACCCCTGGACTCCTCATCTGTATGCTCGTCTCCGGGACCCTGCTCAGCAAGTGCG  
GAAAACAGCGGGGCTGGTGATGACCCACCTGATCCTCAAGGACATGGTGAAGGTGAAGGGGCAGGTCAGCGAGAT  
GGCGGTGCTGCTCATCGACCCCGAGCCTCAGATTGCTGCCCTGGCCAAGAACTTCTTCAATGAGCTCTCCACAA  
GGGCAACGCAATCTATAATCTCCTTCCAGATATCATCAGCCGCTGTGAGACCCCGAGCTGGGGGTGGAGGAAGA  
GCCTTTCCACACCATCATGAAACAGCTCCTCTCTACATCACCAAGGACAAGCAGACAGAGAGCCTGGTGGAAAA  
GCTGTGTGTCAGCGTTCCGCACATCCCGAACTGAGCGGCAGCAGCGAGACCTGGCCTACTGTGTGTCACAGCTGCC  
CCTCACAGAGCGAGGCCTCCGTAAGATGCTTGACAATTTTACTGTTTTGGAGACAACTGTGATGAGTCCAT  
CTTCAGTGCTTTTTTGTGAGTTGTAGGCAAGCTGCGACGTGGGGCCAAGCCTGAGGGCAAGGCTATAATAGATGA  
ATTTGAGCAGAAGCTTCGGGCCTGTATACCAGAGGTTTGGATGGAATCAAGGAGCTTGAGATTGGCCAAGCAGG  
TAGCCAGAGAGCGCCATCAGCCAAGAAACCATCCACTGGTTCTAGGTACCAGCCTCTGGCTTCTACAGCCTCAGA  
CAATGACTTTGTACACCAGAGCCCCGCGTACTACCCGTGCGCATCCAACACCCAGCAGCGAGCTTCCAAAAA  
GAAACCCAAAGTTGTCTTCTCAAGTGATGAGTCCAGTGAGGAAGATCTTTCAGCAGAGATGACAGAAGACGAGAC  
ACCCAAGAAAACAACTCCCATTTCTCAGAGCATCGGCTCGCAGGCACAGATCCTAGGAAGTCTGTTCTGTCTCTCC  
CTGTGCAGGGTATCCTGTAGGGTGACCTGGAATTCGAATTTCTGTTTCCCTTGTAATAATTTTGTCTGTCTTTTT  
TTTTAAAAAAAAAAAAAGGCCGGGCACTGTGGCTCAGCCTGTAATCCAGCACTTTGCGATACCAAGCGGGTGG  
ATAACCTGAGGTAGGGAGTTGAGACCAGCCTGACCAACATGGAGAAACCCATCTCTACTAAAAATAAAAAATT  
AGCCGGGCGTATTGGCGTGGCCTGTAATCCAGCTACTCAAGAGGCTGAGGCAGGAGAATCGCCTGAACCCAGA  
GGCGGAGGTTGTAGTGAGCCGAAATCACACCATTGCACTCCAGCTTGGGCAACAATAGCGAACCTCCATCTCAAA  
TAAAAAAAAAATGCCTACACGCTCTTTAAATGCAAGGCTTCTCTTAAATTAGCCTAACTGAACTGCGTTGAG  
CTGCTTCACTTTGGAATATATGTTTGCCAATCTCCTTGTCTTCTAATGAATAAATGTTTTATATACTTTT

3769/6881  
**FIGURE 3476**

GCCCTGGAGGCCCGCCTGGCCGCTCCCGGCCCTGGGGTGACATCGGCCCTGAGTCCCGTCCCAGGCTCTGGGC  
TCGGGCAGCCGCCGCCACCGCTGCCCAGGACGTCGGGCTCCTGCCTTCTCCCAGGCCCCACGTTGCTGGCCG  
CCTGGCCGAGTGGCCGCCATGCTCTGCCTTGGGCCACCTCTGCCCCGGCCTGGCCTGGGGGCTCTGGTGCTG  
GGCCTCTTCGGGCTCCTGGCAGCATCGCAGCCCCAGGCGGTGCCTCCATATGCGTCGGAGAACCAGACCTGCAGG  
GACCAGGAAAAGGAATACTATGAGCCCCAGCACCGCATCTGCTGCTCCCGCTGCCCGCCAGGCACCTATGTCTCA  
GCTAAATGTAGCCGATCCGGGACACAGTTTGTGCCACATGTGCCGAGAATTCCTACAACGAGCACTGGAACCTAC  
CTGACCATCTGCCAGCTGTGCCGCCCTGTGACCCAGTGATGGGCCTCGAGGAGATTGCCCCCTGCACAAGCAAA  
CGGAAGACCCAGTGCCGCTGCCAGCCGGAATGTTCTGTGCTGCCTGGGCCCTCGAGTGTACACACTGCGAGCTA  
CTTTCTGACTGCCCGCTGGCACTGAAGCCGAGCTCAAAGATGAAGTTGGGAAGGGTAACAACCCTGCGTCCCC  
TGCAAGGCAGGGCACTTCCAGAATACCTCCTCCCCAGCGCCCGCTGCCAGCCCCACACCAGGTGTGAGAACC  
GGTCTGGTGGAGGACGCTCCAGGCACTGCCAGTCCGACACAACCTGCAAAAATCCATTAGAGCCACTGCCCCCA  
GAGATGTCAGGAACCATGCTGATGCTGCGCGTTCTGCTGCCACTGGCCTTCTTTCTGCTCCTTGCCACCGTCTTC  
TCTGTCATCTGGAAGAGCCACCCTTCTCTGTCAGGAACTGGGATCGTCTCAAGAGGCGTCCGCAGGGAGAG  
GGACCCAATCCTGTAGCTGGAAGCTGGGAGCCTCCGAAGGCCCATCCATACTTCCCTGACTTGGTACAGCCACTG  
CTACCCATTTCTGGAGATGTTTCCCCAGTATCCACTGGGCTCCCCGCAGCCCCAGTTTTGGAGGCAGGGGTGCCG  
CAACAGCAGAGTCTCTGGACCTGACCAGGGAGCCGAGTTGGAACCCGGGAGCAGAGCCAGGTGGCCACGGT  
ACCAATGGCATTCTATGTACCGGCGGGTCTATGACTATCACTGGCAACATCTACATCTACAATGGACCACTG  
GGGGGACCACCGGGTCTCTGGAGACCTCCAGCTACCCCCGAACCTCCATACCCCATTCGGAAGAGGGGGACCT  
GGCCCTCCCGGGCTCTCTACACCCCAACAGGAAGATGGCAAGGCTTGGCACCTAGCGGAGACAGACACTGTGGT  
GCCACACCCTCTAACAGGGGCCCAAGGAACCAATTTATACCCATGACTGACGAGTCTGAGAAAAGGCAGAAGA  
AGGGGGGCACAAGGGCACTTTCTCCCTTGAGGCTGCCCTGCCACGTTGGGATTACAGGGGCTGAGTAGGGCCC  
GGGGAAGCAGAGCCCTAAGGGATTAAGGCTCAGACACCTCTGAGAGCAGGTGGGCACCTGGGTGGGTACGGTGCCC  
TCCACAGGACTCTCCCTACTGCCTGAGCAAACCTGAGGCCTCCCGGCAGACCCACCCACCCCTGGGGCTGTCA  
GCCTCAGGCACGGACAGGGCACATGATACCAACTGCTGCCCACTACGGCACGCCGCACCGGAGCACGGCACCGAG  
GGAGCCGCCACACGGTCACCTGCAAGGACGTCACGGGCCCTCTAAAGGATTTCGTGGTGCTCATCCCCAAGCTTC  
AGAGACCCTTTGGGGTTCCACACTTCACGTGGACTGAGGTAGACCTGCATGAAGATGAAATTATAGGGAGGACG  
CTCCTTCCCTCCCTCCTAGAGGAGAGGAAAGGGAGTCATTAACAACCTAGGGGGTTGGGTAGGATTCTAGGTAT  
GGGGAAGAGTTTTGGAAGGGGAGGAAAATGGCAAGTGTATTTATATTGTAACCACATGCAATAAAAAGAATGGG  
ACCTAAACTCGTGCCGCTCGTGCCGAATTCCTGCAG

3770/6881  
**FIGURE 3477**

MLLPWATSAPGLAWGPLVLGLFGLLAASQPQAVPPYASENQTCRDQEKEYYEPQHRICCSRCPPGTIVSAKCSRI  
RDTVCATCAENSYNEHWNLTICQLCRPCDPVMGLEEIAPCTSKRKTQCRCQPGMFCAAWALECTHCELLSDCPP  
GTEAELKDEVGKGNNHCVPCKAGHFQNTSSPSARCQPHTRCENQGLVEAAPGTAQSDTTCKNPLEPLPPMSGTM  
LMLAVLLPLAFFLLLATVFSKIWKSHPSLCRKLGSLLKRRPQGEQGNPVAGSWEPPKAHPYFPDLVQPLLPISGD  
VSPVSTGLPAAPVLEAGVPQQSPDLTREPQLEPGEQSQVAHGTINGIHVTGGSMITIGNIYYNGPVLGGPPGP  
GDLPATPEPPYPIPEEGDPGPPGLSTPHQEDGKAHHLAETEHCGATPSNRGPRNQFITHD

3771/6881  
**FIGURE 3478**

CCGGCCAGCGGGCGGGCTCCCCAGCCAGGCCGCTGCACCTGTCAGGGGAACAAGCTGGAGGAGCAGGACCCTAGA  
CCTCTGCAGCCCATAACCAGGTCTC**ATGG**AGGGGAACAAGCTGGAGGAGCAGGACTCTAGCCCTCCACAGTCCACT  
CCAGGGCTCATGAAGGGGAACAAGCGTGAGGAGCAGGGGCTGGGCCCCGAACCTGCGGCGCCCCAGCAGCCCACG  
GCGGAGGAGGAGGCCCTGATCGAGTTCCACCGCTCCTACCGAGAGCTCTTCGAGTTCTTCTGCAACAACACCACC  
ATCCACGGCGCCATCCGCTGGTGTGCTCCAGCACAAACCGCATGAAGACGGCCTTCTGGGCAGTGCTGTGGCTC  
TGCACCTTTGGCATGATGTACTGGCAATTCGGCCTGCTTTTCGGAGAGTACTTCAGCTACCCCGTCAGCCTCAAC  
ATCAACCTCAACTCGGACAAGCTCGTCTTCCCCGAGTGACCATCTGCACCCTCAATCCCTACAGGTACCCGGAA  
ATTAAAGAGGAGCTGGAGGAGCTGGACCGCATCACAGAGCAGACGCTCTTTGACCTGTACAAATACAGCTCCTTC  
ACCCTCTCGTGGCCGGCTCCCGCAGCCGTCGCGACCTGCGGGGACTCTGCCGACCCCTTGCGAGCGCCTGAGG  
GTCCCCCCCCCGCTCACGGGGCCCCGTCGAGCCCGTAGCGTGGCCTCCAGCTTGCGGGACAACAACCCCCAGGTG  
GACTGGAAGGACTGGAAGATCGGCTTCCAGCTGTGCAACAGAACAATCGGACTGCTTCTACCAGACATACTCA  
TCAGGGGTGGATGCGGTGAGGGAGTGGTACCGCTTCCACTACATCAACATCCTGTGAGGCTGCCAGAGACTCTG  
CCATCCCTGGAGGAGACACGCTGGGCAACTTCATCTTCGCTGCCGCTTCAACCAGGTCTCTGCAACCAGGCG  
AATTACTCTCACTCCACCACCCGATGTATGGAAGTCTATACTTTCAATGACAAGAACAACCTCAACCTCTGG  
ATGTCTTCCATGCCGTGGAATCAACAACGGTCTGTCCCTGATGCTGCGCGCAGAGCAGAATGACTTCATTCCCTG  
CTGTCCACAGTGACTGGGGCCCCGGTAATGGTGCACGGGCAGGATGAACCTGCCTTTATGGATGATGGTGGCTTT  
AACTTGCGGCCTGGCGTGGAGACCTCCATCAGCATGAGGAAGGAACCCCTGGACAGACTTGGGGGCGATTATGGC  
GACTGCACCAAGAATGGCAGTGATGTTCCTGTTGAGAACCTTTACCCTCAAAGTACACACAGCAGGTGTGTATT  
CACTCCTGCTTCCAGGAGAGCATGATCAAGGAGTGTGGCTGTGCCTACATCTTCTATCCGCGGCCCCAGAACGTG  
GAGTACTGTGACTACAGAAAGCACAGTTCCTGGGGGTACTGCTACTATAAGCTCCAGGTTGACTTCTCCTCAGAC  
CACCTGGGCTGTTTCCACCAAGTGCCGAAGCCATGCAGCGTGACCAGTACCAGCTCTCTGCTGGTTACTCACGA  
TGCCCTCGGTGACATCCCAGGAATGGGTCTTCCAGATGCTATCGCGACAGAACAATTACACCGTCAACAACAAG  
AGAAATGGAGTGGCCAAAGTCAACATCTTCTTCAAGGAGCTGAACCTACAAAACCAATTCTGAGTCTCCCTCTGTC  
ACGATGGTCACCTCCTGTCCAACCTGGGCAGCCAGTGAGCCTGTGTTTCGGCTCCICGGTGTGTGTGTGGTG  
GAGATGGCTGAGCTCGTCTTTGACCTGCTGGTCATCATGTTCTCATGCTGCTCCGAAGGTTCCGAAGCCGATAC  
TGGTCTCCAGGCCGAGGGGGCAGGGGTGCTCAGGAGGTAGCCTCCACCCTGGCATCCTCCCTCCTTCCCACTTC  
TGCCCCACCCCATGTCTCTGTCTTGTCCAGCCAGGCCCTGCTCCCTCTCCAGCCTTGACAGCCCCCTCCCCCT  
GCCTATGCCACCTGGGCCCCCGCCATCTCCAGGGGCTCTGCAGGGGCCAGTTCCCTCCACCTGTCTCTGGGG  
GGGCCCC**TGAG**AGGGGAAGGAGAGGTTTCTCACACCAAGGCAGATGCTCCTCTGGTGGGAGGGTGCTGGCCCTGGCA  
AGATTGAAGGATGTGCAGGGCTTCCTCTCAGAGCCGCCAAACTGCCGTTGATGTGTGGAGGGGAAGCAAGATGG  
GTAAGGGCTCAGGAAGTTGCTCCAAGAACAGTAGCTGATGAAGCTGCCCAGAAGTGCTTGGCTCCAGCCCTGTA  
CCCCTTGGTACTGCCTCTGAACACTCTGGTTTTCCCCACCCAAGTGCAGGCTAAGTCTCTTTTTCCCTTGGATCAGC  
CAAGCGAAACTTGGAGCTTTGACAAGGAACCTTCCCTAAGAAACCGCTGATAACCAGGACAAAACACAACCAAGGG  
TACACGCAGGCATGCACGGGTTTCTGCCCAGCGACGGCTTAAGCCAGCCCCCGACTGGCCTGGCCACACTGCTC  
TCCAGTAGCACAGATGTCTGCTCCTCCTCTTGAACCTTGGGTGGGAAACCCACCCAAAAGCCCCCTTTGTTACTT  
AGGCAATTCCCTTCCCTGACTCCCGAGGGCTAGGGCTAGAGCAGACCCGGGTAAGTAAAGGCAGACCCAGGGCT  
CCTCTAGCCTCATACCCGTGCCCTCACAGAGCCATGCCCCGGCACCTCTGCCCTGTGTCTTTCATACCTCTACAT  
GTCTGCTTGAGATATTTCTCAGCCTGAAAGTTTCCCCAACCATCTGCCAGAGAACTCCTATGCATCCCTTAGAA  
CCCTGCTCAGACACCATTACTTTTGTGAACGCTTCTGCCACATCTGTCTTCCCCAAAATTGATCACTCCGCCTT  
CTCCTGGGCTCCCGTAGCACACTATAACATCTGCTGGAGTGTGTGCTGTGCACCATACTTTCTTGTACATTTGTG  
TCTCCCTTCCCACTAGACTGTAAGTGCCTTGGCGTCAGGGACTGAATCTTGCCCGTTTATGTATGCTCCATGTC  
TAGCCCATCATCTGCTTGGAGCAAGTAGGCAGGAGCTCAATAAATGTTTGTGTCATGAAAAAAAAAAAAAAAAA  
A



3772/6881

**FIGURE 3479**

MEGNKLEEQDSSPPQSTPGLMKGNKREEQGLGPEPAAPQQPTAEELIEFHRSYRELFEFFCNNTTIHGAIRLV  
CSQHNRMKTAFWAVLWLCTFGMMYWQFGLLFGEYFSYPVSLNINLNSDKLVFPVAVTICTLNPYRYPEIKEELEEL  
DRITEQTLFDLYKYSSFTTLVAGSRSRDLRGTLPHPLQRLRVPPPPHGARRARSVASSLRDNNPQVDWKDWKIG  
FQLCNQNKSDCFYQTYSSGVDVAVREWYRFHYINILSRLPETLPSLEEDTLGNFIFACRFNQVSCNQANYSHFHHF  
MYGNCYTFNDKNNNSNLWMSSMPGINNGLSLMLRAEQNDFIPLLSTVTGARVMVHGQDEPAFMDDGGFNLRPGVET  
SISMRKETLDRLGGDYGDCTKNGSDVPVENLYPSKYTQQVCIHSCFQESMIKECGCAYIFYPRPQNVEYCDYRKH  
SSWGICYKYLQVDFSSDHLGCFTKCRKPCSVTSYQLSAGYSRWPSVTSQEWVFQMLSRQNNYTVNNKRNGVAKVN  
IFFKELNYKTNSESPTMTVLLSNLGSQWSLWFGSSVLSVVEAELVFDLLVIMFLMLLRFRSRYWSPGRGGR  
GAQEVASTLASSPPSHFCPPMSLSLSQPGPAPSPALTAPPPAYATLGPRPSPGGSAGASSSTCPLGGP

3773/6881  
**FIGURE 3480**

CGGCCCAGTGATCTTGAACCCCAAAGGCCAGAACTGGAGCCTCAGTCCAGAGAATTCTGAGAAAATTAAAGCAGA  
GAGGAGGGGAGAGATCACTGGGACCAGGCCGTGATCTCTATGCCCGAGTCTCAACCCCTCAACTGTCACCCCAAGG  
CACTTGGGACGTCTTGACAGACCGAGTCCCGGGAAGCCCCAGCACTGCCGCTGCCACACTGCCCTGAGCCCAAA  
TGGGGGAGTGAGAGGCCATAGCTGTCTGGCATGGGCCTCTCCACCGTGCCTGACCTGCTGCTGCCGCTGGTGCTC  
CTGGAGCTGTTGGTGGGAATATACCCCTCAGGGGTTATTGGACTGGTCCCTCACCTAGGGGACAGGGAGAAGAGA  
GATAGTGTGTGTCCTCAAGGAAAATATATCCACCCCTCAAATAATTGATTTGCTGTACCAAGTGCCACAAAGGA  
ACCTACTTGTACAATGACTGTCCAGGCCCGGGCAGGATACGAGCTGCAGGGAGTGTGAGAGCGGCTCCTTCACC  
GCTTCAGAAAACCACCTCAGACACTGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTGAGGTGGAGATCTCT  
TCTTGACAGTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAACACCTT  
TTCCAGTGTCTCAATTGCAGCCTCTGCCTCAATGGGACCGTGCACCTCTCCTGCCAGGAGAAACAGAACACCGTG  
TGCACCTGCCATGCAGGTTTCTTTCTAAGAGAAAACGAGTGTGTCTCCTGTAGTAAGTGAAGAAAAGCCTGGAG  
TGCACGAAGTTGTGCTACCCAGATTGAGAATGTTAAGGGCACTGAGGACTCAGGCACCACAGTGTGTTGCC  
CTGGTCATTTTCTTTGGTCTTTGCCTTTTATCCCTCCTCTTCATTGGTTTAAATGTATCGCTACCAACGGTGAAG  
TCCAAGCTCTACTCCATTGTTTGTGGGAAATCGACACCTGAAAAAGAGGGGGAGCTTGAAGGAAGTACTACTAAG  
CCCCGGCCCCAAACCAAGCTTCAGTCCCACTCCAGGCTTCACCCCCACCCTGGGCTTCAGTCCCGTGCCCACT  
TCCACCTTCACCTCCAGCTCCACCTATACCCCCGGTGACTGTCCCAACTTTGCGGCTCCCCGCAGAGAGGTGGCA  
CCACCTATCAGGGGGCTGACCCCATCCTTGCGACAGCCCTCGCCTCCGACCCCATCCCCAACCCCTTCAGAAG  
TGGGAGGACAGCGCCACAAGCCACAGAGCCTAGACACTGATGACCCCGCGACGCTGTACGCCGTGGTGGAGAAC  
GTGCCCCCGTTGCGCTGGAAGGAATTCGTGCGGCGCCTAGGGCTGAGCGACCACGAGATCGATCGGCTGGAGCTG  
CAGAACGGGCGCTGCCTGCGCGAGGCGCAATACAGCATGCTGGCGACCTGGAGGCGGCGCACGCCGCGGCGCGAG  
GCCACGCTGGAGCTGCTGGGACGCGTGCTCCGCGACATGGACCTGCTGGGCTGCCTGGAGGACATCGAGGAGGCG  
CTTTGCGGGCCCCCGCCCTCCCGCCCCGCGCCAGTCTTCTCAGATGAGGCTGCGCCCTGCGGGCAGCTCTAAG  
GACCGTCTTGCAGATCGCCTTCCAACCCCACTTTTTTCTGAAAGGAGGGGTCTGAGGGGCAAGCAGGAGCT  
AGCAGCCGCTACTTGGTGCTAACCCCTCGATGTACATAGCTTTTTCTCAGCTGCCTGCGCGCCGCGACAGTCAG  
CGCTGTGCGCGCGGAGAGAGGTGCGCCGTGGGCTCAAGAGCCTGAGTGGGTGGTTTTCGAGGATGAGGGACGCTA  
TGCTCATGCCGTTTTTGGGTGTCTCACCAGCAAGGCTGCTCGGGGGCCCCCTGGTTCGTCCCTGAGCCTTTTTC  
ACAGTGATAAGCAGTTTTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTAAATCAATCATGTTACACTAATAGA  
AACTTGGCACTCCTGTGCCCTCTGCTGGACAAGCACATAGCAAGCTGAACTGCTCTAAGGCAGGGGCGAGCAGC  
GAACAATGGGGCCTTCAGCTGGAGCTGTGGACTTTTGTACATACACTAAAATTCTGAAGTT

3774/6881  
**FIGURE 3481**

MGLSTVPDLLLPLVLLELLVGIYPSGVIGLVPHLGDREKRDVCPQGKYIHPQNN SICCTKCHKGTYLYND CPGP  
GQDIDCRECESGSFTASENHLRHCLSCSKCRKEMGQVEISSCTVDRDITVCGCRKNQYRHYWSENLFQCFNCSLCL  
NGTVHLSCQEKQNTVCTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIENVKGTEDSGTTVLLPLVIFFGLCLL  
SLLFIGLMYRYQRWKSPLYIVCGKSTPEKEGELEGTTTKPLAPNPSFSPTPGFTPTLGFSPVPSSTFTSSSTYT  
PGDCPNFAAPRREVAPPYQGADPILATALASDPINPLQKWEDSAHKPQSLDTPATLYAVVENVPPLRWKEFV  
RRLGLSDHEIDRLELQNGRCLREAQYSMLATWRRRTPRREATLELLGRVLRDMDLLGCLEDIEEALCGPAALPPA  
PSLLR

3775/6881  
**FIGURE 3482A**

GGGGACTTCCAGAATGGCAAGAGAGTGAGCCTCTCCGTGTATCTTGGGGAATTTTTTGACATCCATTGTTTTGTC  
AATGGTACCGTGACACAGGGGGACCAAAGAGTCTCCATGCCCTATGCCCTCCAAAGGGCTGTATCTAGAAACTGAG  
GCTGGGTACTACAAGCTGTCCGGTGAGGCCTATGGCTTTGTGGCCAGGATCGATGGCAGCGGCAACTTTCAAGTC  
CTGCTGTGACAGACATACTTCAACAAGACCTGCGGGCTGTGTGGCAACTTTAACATCTTTGCTGAAGATGACTTT  
ATGACCCAAGAAGGGACCTTGACCTCGGACCCTTATGACTTTGCCAACTCATGGGCTCTGAGCAGTGGAGAACAG  
TGGTGTGAACGGGCATCTCCTCCCAGCAGCTCATGCAACATCTCCTCTGGGGAATGCAGAAGGGCCTGTGGGAG  
CAGTGCCAGCTTCTGAAGAGCACCTCGGTGTTTGGCCGCTGCCACCCTCTGGTGGACCCCGAGCCTTTTGTGGCC  
CTGTGTGAGAAGACTTTGTGTGAGTGTGCTGGGGGCTGGAGTGCCTGCCCCTGCCCTCCTGGAGTACGCCCCG  
ACCTGTGCCAGGAGGGAATGGTGTGTACGGCTGGACCGACCACAGCGCTGCAGCCAGTGTGCCCTGCTGGT  
ATGGAGTATAGGCAGTGTGTGTCCCTTGGCCAGGACCTGCCAGAGCTGCACATCAATGAAATGTGTGAGGAG  
CGATGCGTGGATGGCTGCAGCTGCCCTGAGGGACAGCTCCTGGATGAAGGCCTCTGCGTGGAGAGCACCGAGTGT  
CCCTGCGTGCATTCCGGAAGCGCTACCCTCCCGGCACCTCCCTCTCTCGAGACTGCAACCTGCATTGTCCGA  
AACAGCCAGTGGATCTGCAGCAATGAAGAATGTCCAGGGGAGTGCCTTGTACAGGTCAATCACACTTCAAGAGC  
TTTGACAACAGATACTTACCTTCAGTGGGATCTGCCAGTACCTGCTGGCCCGGGATTGCCAGGACCACTCCTTC  
TCCATTGTCAATTGAGACTGTCCAGTGTGCTGATGACCGCAGCCTGTGTGCACCCGCTCCCTCACCGTCCGGCTG  
CCTGGCCTGCACAACAGCCTTGTGAACTGAAGCATGGGGCAGGAGTTGCCATGGATGGCCAGGACGTCCAGCTC  
CCCCCTCTGAAAGGTGACCTCCGCATCCAGCATAAGTACGGCCCTCCGTGCGCCTCAGCTACGGGGAGGACCTG  
CAGATGGACTGGGATGGCCGCGGGAGGCTGCTGGTGAAGCTGTCCCCCTCTATGCCGGGAAGACCTGCGGCCCTG  
TGTGGGAATTACAATGGCAACCAGGGCGACGACTTCCTTACCCCTCTGGGCTGGCGGAGCCCCGGGTGGAGGAC  
TTCGGGAACGCTGGAAGCTGCACGGGGACTGCCAGGACCTGCAGAAGCAGCACAGCGATCCCTGCGCCCTCAAC  
CCGCGCATGACCAGTTCTCCGAGGAGGCTGCGCGGTCTGACGTCCCCACATTGAGGGCTGCCATCGTGCC  
GTCAGCCCGCTGCCCTACCTGCGGAACGCGCTACGACGTGTGCTCCTGCTCGGACGGCCGCGAGTGCCTGTGC  
GGCGCCCTGGCCAGCTATGCCGCGGCTGCGCGGGGAGAGGCTGCGCGTTCGCTGGCGCGAGCCAGGCCGCTGT  
GAGCTGAAGTGGCCGAAAGGCCAGGTGTACCTGCAGTGCGGGACCCCTGCAACCTGACCTGCCGCTCTCTCTCT  
TACCCGGATGAGGAATGCAATGAGGCCTGCCTGGAGGGCTGCTTCTGCCCCCAGGGCTCTACATGGATGAGAGG  
GGGGACTGCGTGCCCAAGGCCAGTGCCCTGTTACTATGACGGTGAGATCTTCCAGCCAGAAGACATCTTCTCA  
GACCATCACACCATGTGCTACTGTGAGGATGGCTTCATGCACTGTACCATGAGTGGAGTCCCCGGAAGCTTGCTG  
CCTGACGCTGTCTCAGCAGTCCCCTGTCTCATCGCAGCAAAAGGAGCCTATCCTGTGGCCCCCATGGTCAAG  
CTGGTGTGTCCCGCTGACAACCTGCGGGCTGAAGGGCTCGAGTGTACAAAACGTGCCAGAATATGACCTGGAG  
TGCATGAGCATGGGCTGTGTCTCTGGCTGCCCTTGCCCCCGGGCATGGTCCGGCATGAGAACAGATGTGTGGCC  
CTGGAAAGGTGTCCCTGTCTCCATCAGGGCAAGGAGTATGCCCTGGAGAAACAGTGAAGATTGGCTGCAACACT  
TGTGTCTGTGAGGACCGGAAGTGAAGTGCACAGACCATGTGTGTGATGCCACGTGCTCCACGATCGGCATGGCC  
CACTACCTCACCTTCGACGGGCTCAAATACCTGTTCCCCGGGGAGTGCCAGTACGTTCTGGTGCAGGATTACTGC  
GGCAGTAACCTGGGACCTTTCGGATCCTAGTGGGAATAAGGGATGCAGCCACCCCTCAGTGAATGCAAGAAA  
CGGGTCACCATCCTGGTGGAGGGAGGAGAGATTGAGCTGTTTGACGGGGAGGTGAATGTGAAGAGGCCCATGAAG  
GATGAGACTCACTTTGAGGTGGTGGAGTCTGGCCGTACATCATTCTGTGCTGGGCAAAGCCCTCTCCGTGGTC  
TGGGACCGCCACCTGAGCATCTCCGTGGTCTGAGCAGACATACCAGGAGAAAGTGTGTGGCCTGTGTGGGAAT  
TTTGATGGCATCCAGAACAATGACCTCACCAGCAGCAACCTCCAAGTGGAGGAAGACCCTGTGGACTTTGGGAAC  
TCCTGGAAAGTGAGCTCGCAGTGTGCTGACACCAGAAAAGTGCCTCTGGACTCATCCCTGCCACCTGCCATAAC  
AACATCATGAAGCAGACGATGGTGGATTCTCCTGTAGAATCCTTACCAGTGACGTTCTCCAGGACTGCAACAAG  
CTGGTGGACCCGAGCCATACTGGATGTCTGCATTACGACACCTGCTCCTGTGAGTCCATTGGGGACTGCGCC  
TGCTTCTGCGACACCATTTGCTGCCTATGCCACGCTGTGTGCCAGCATGGCAAGGTGGTGACCTGGAGGACGGCC  
ACATTGTGCCCCAGAGCTGCGAGGAGAGGAATCTCCGGGAGAACGGGTATGAGTGTGAGTGGCGCTATAACAGC  
TGTGCACCTGCCGTGCAAGTCACGTGTGACACCCTGAGCCACTGGCCTGCCCTGTGCAGTGTGTGGAGGGCTGC  
CATGCCCCTGCCCCTCCAGGGAAAATCCTGGATGAGCTTTTGACAGACCTGCGTTGACCCTGAAGACTGTCCAGTG  
TGTGAGGTGGCTGGCCGCGCTTTTGCCCTCAGGAAAGAAAGTCACCTTGAATCCAGTGACCCTGAGCACTGCCAG  
ATTTGCCACTGTGATGTTGTCAACCTCACCTGTGAAGCCTGCCAGGAGCCGGGAGGCTGGTGGTGCCTCCACA  
GATGCCCCGGTGAGCCCCACCACTCTGTATGTGGAGGACATCTCGGAACCGCGGTTGCACGATTCTACTGCAGC

3776/6881  
**FIGURE 3482B**

AGGCTACTGGACCTGGTCTTCTGCTGGATGGCTCCTCCAGGCTGTCCGAGGCTGAGTTTGAAGTGCTGAAGGCC  
TTTGTGGTGGACATGATGGAGCGGCTGCGCATCTCCAGAAGTGGGTCCGCGTGGCCGTGGTGGAGTACCACGAC  
GGCTCCCACGCCTACATCGGGCTCAAGGACCGGAAGCGACCGTCAGAGCTGCGGCGCATTGCCAGCCAGGTGAAG  
TATGCGGGCAGCCAGGTGGCTCCACCAGCGAGGTCTTGAATACACACTGTTCCAAATCTTCAGCAAGATCGAC  
CGCCCTGAAGCCTCCCGCATCACCTGCTCCTGATGGCCAGCCAGGAGCCCCAACGGATGTCCCGGAACCTTTGTC  
CGCTACGTCCAGGGCCTGAAGAAGAAGAAGTTCATTGTGATCCCGTGGGCATTGGGCCCCATGCCAACCTCAAG  
CAGATCCGCTCATCGAGAAGCAGGCCCCCTGAGAACAAGGCCTTCGTGCTGAGCAGTGTGGATGAGCTGGAGCAG  
CAAAGGGACGAGATCGTTAGCTACCTCTGTGACCTTGCCCTGAAGCCCCCTCCTCTACTCTGCCCCCGACATG  
GCACAAGTCACTGTGGGCCCCGGGGCTCTTGGGGGTTTCGACCCTGGGGCCCAAGAGGAACTCCATGGTTCTGGAT  
GTGGCGTTCTGCTGGAAGGATCGGACAAAATTGGTGAAGCCGACTTCAACAGGAGCAAGGAGTTCATGGAGGAG  
GTGATTCAGCGGATGGATGTGGGCCAGGACAGCATCCACGTACCGTGCTGCAGTACTCCTACATGGTGAAGTGTG  
GAGTACCCCTTCAGCGAGGCACAGTCCAAAGGGGACATCCTGCAGCGGGTGCAGAGATCCGCTACCAGGGCGGC  
AACAGGACCAACACTGGGCTGGCCCTGCGGTACCTCTCTGACCACAGCTTCTTGGTCAGCCAGGGTGACCGGGAG  
CAGGCGCCCAACCTGGTCTACATGGTCACCGGAAATCCTGCCTCTGATGAGATCAAGAGGCTGCCTGGAGACATC  
CAGGTGGTGGCCATTGGAGTGGGCCCTAATGCCAACGTGCAGGAGCTGGAGAGGATTGGCTGGCCCAATGCCCT  
ATCCTCATCCAGGACTTTGAGACGCTCCCCGAGAGGCTCCTGACCTGGTGTGCTGCAGAGGTGCTGCTCCGGAGAG  
GGGCTGCAGATCCCCACCTCTCCCTGCACCTGACTGCAGCCAGCCCCCTGGACGTGATCCTTCTCCTGGATGGC  
TCCTCCAGTTTCCAGCTTCTTATTTGATGAATGAAGAGTTTCGCCAAGGCTTTTCAATTCAAAAGCCAAATATA  
GGGCTCGTCTCACTCAGGTGTGAGTGTGAGTATGGAAGCATCACCACCATTGACGTGCCATGGAACGTGGTC  
CCGGAGAAAGCCATTGCTGAGCCTTGTGGACGTATGCAGCGGGAGGGAGGCCCCAGCCAAATCGGGGATGCC  
TTGGGCTTTGCTGTGCGATACTTGACTTCAGAAATGCATGGTGCCAGGCCGGGAGCCTCAAAGGCGGTGGTCATC  
CTGGTCACGGACGTCTCTGTGGATTGAGTGGATGCAGCAGCTGATGCCGCCAGGTCCAACAGAGTGACAGTGTTC  
CCTATTGGAATTGGAGATCGCTACGATGCAGCCCAGTACGGATCTTGGCAGGCCAGCAGGCGACTCCAACGTG  
GTGAAGCTCCAGCGAATCGAAGACCTCCCTACCATGGTCACCTTGGGCAATTCCTTCTCCACAACTGTGCTCT  
GGATTGTAGGATTGATGGATGAGGATGGGAATGAGAAGAGGCCCGGGACGTCTGGACCTTGCCAGACCAG  
TGCCACACCGTGAATGGCCAGCCAGATGGCCAGACCTTGTGAAGAGTCAATCGGGTCAACTGTGACCGGGGGGTG  
AGGCCTTCGTGCCCTAACAGCCAGTCCCTGTTAAAGTGAAGAGACCTGTGGCTGCCGCTGGACCTGCCCTGT  
GTGTGCACAGGCAGTCCACTCGGCACATCGTGACCTTTGATGGGCAGAAATTCAGCTGACTGGCAGCTGTCT  
TATGTCTATTTCAAACAAGGAGCAGGACCTGGAGGTGATTCTCCATAATGGTGCCTGCAGCCCTGGAGCAAGG  
CAGGGCTGCATGAAATCCATCGAGGTGAAGCACAGTGCCCTCTCCGTCGAGCTGCACAGTGACATGGAGGTGACG  
GTGAATGGGAGACTGGTCTCTGTTTCTTACGTGGGTGGGAACATGGAAGTCAACGTTTATGGTGCCATCATGCAT  
GAGGTGAGATTCAATACCTTGGTCACATCTTACATTCACTCCACAAAACAAATGAGTTCCAACTGCAGCTCAGC  
CCCAAGACTTTTGCTTCAAAGACGTATGGTCTGTGTGGGATCTGTGATGAGAACGGAGCCAATGACTTTCATGCTG  
AGGGATGGCACAGTCAACACAGACTGGAAAACACTTGTTCAGGAATGGACTGTGCAGCGGCCAGGGCAGACGTGC  
CAGCCCATCCTGGAGGAGCAGTGTCTTGTCCCCGACAGTCCCACTGCCAGGTCTCCTCTTACCACTGTTTGCT  
GAATGCCACAAGGTCTTGCTCCAGCCACATTCTATGCCATCTGCCAGCAGGACAGTTGCCACCAGGAGCAAGTG  
TGTGAGGTGATCGCCTCTTATGCCACCTCTGTGCGACCAACGGGGTCTGCGTTGACTGGAGGACACCTGATTTT  
TGTGCTATGTCAIGCCACCATCTCTGGTCTACAACCACTGTGAGCATGGCTGTCCCCGGCACTGTGATGGCAAC  
GTGAGCTCCTGTGGGGACCATCCCTCCGAAGGCTGTTTCTGCCCTCCAGATAAAGTCATGTTGGAAGGCAGCTGT  
GTCCCTGAAGAGGCCTGCACTCAGTGCAATTGGTGAGGATGGAGTCCAGCACCAGTTCTTGAAGCCTGGGTCCCG  
GACCACCAGCCCTGTGAGATCTGCACATGCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACG  
GCCAAAGTCCCACGTGTGGCCTGTGTGAAGTAGCCCGCTCCGCCAGAATGCAGACAGTGTGCCCCGAGTAT  
GAGTGTGTGTGTGACCCAGTGAGCTGTGACCTGCCCCCAGTGCCCTCACTGTGAACGTGGCCTCCAGCCCACACTG  
ACCAACCTTGGCGAGTGACAGACCAACTTCACTGCGCTGCAGGAAGGAGGAGTGCAAAGAGTGTCCCCACCC  
TCCTGCCCCCGCACCGTTTGCCACCTTCCGAAGACCCAGTGTGTGATGAGTATGAGTGTGCTGCAACTGT  
GTCAACTCCACAGTGAGCTGTCCCTTGGGTACTTGGCTCAACCGCCACCAATGACTGTGGCTGTACCACAACC  
ACCTGCCTTCCCGACAAGGTGTGTGTCCACCGAAGCACCATCTACCCTGTGGGCCAGTTCTGGGAGGAGGGCTGC  
GATGTGTGCACTGCACCGACATGGAGGATGCCGTGATGGGCTCCGCGTGGCCAGTGCTCCCAAGCCCTGT

3777/6881  
**FIGURE 3482C**

GAGGACAGCTGTCGGTCGGGCTTCACTTACGTTCTGCATGAAGGCGAGTGCTGTGGAAGGTGCCTGCCATCTGCC  
TG TGAGGTGGTGACTGGCTCACCGCGGGGGGACTCCCAGTCTTCCTGGAAGAGTGTCGGCTCCCAGTGGGCTCC  
CCGGAGAACCCCTGCCTCATCAATGAGTGTGTCCGAGTGAAGGAGGAGGTCTTTATACAACAAAGGAACGTCTCC  
TGCCCCAGCTGGAGGTCCCTGTCTGCCCCTCGGGCTTTAGCTGAGCTGTAAGACCTCAGCGTGCTGCCCAAGC  
TGTCGCTGTGAGCGCATGGAGGCTGCATGCTCAATGGCACTGTCAATGGGCCCCGGGAAGACTGTGATGATCGAT  
GTGTGCACGACCTGCCGCTGCATGGTGCAGGTGGGGTCACTCTCTGGATTCAAGCTGGAGTGCAGGAAGACCACC  
TGCAACCCCTGCCCCCTGGGTTACAAGGAAGAAAATAACACAGGTGAATGTTGTGGGAGATGTTTGCCTACGGCT  
TGCACCATTCAGCTAAGAGGAGGACAGATCATGACACTGAAGCGTGATGAGACGCTCCAGGATGGCTGTGATACT  
CACTTCTGCAAGGTCAATGAGAGAGGAGAGTACTTCTGGGAGAAGAGGGTCACAGGCTGCCACCCTTTGATGAA  
CACAAGTGTCTGGCTGAGGGAGGTAAAATTATGAAAATTCAGGCACCTGCTGTGACACATGTGAGGAGCCTGAG  
TGCAACGACATCACTGCCAGGCTGCAGTATGTCAAGTGGGAAGCTGTAAGTCTGAAGTAGAGGTGGATATCCAC  
TACTGCCAGGGCAAATGTGCCAGCAAAGCCATGTACTCCATTGACATCAACGATGTGCAGGACCAGTGCTCCTGC  
TGCTCTCCGACACGGACGGAGCCCATGCAGGTGGCCCTGCACTGCACCAATGGCTCTGTTGTGTACCATGAGGTT  
CTCAATGCCATGGAGTGCAAATGCTCCCCAGGAAGTGCAAGTGAGGCTGCTGCAGCTGCATGGGTGCCTGC  
TGCTGCCTGCCTTGGCCTGATGGCCAGGCCAGAGTGCTGCCAGTCCTCTGCATGTTCTGCTCTTGTGCCCTTCTG  
AGCCCAACAATAAAGGCTGAGCTCTTATCTTGC

3778/6881  
**FIGURE 3483A**

TCAGTGGCGTTTGGCCCTGATTCCCGGGGCTGGCTTTTCAGCGTAGCAATTCTGCCGGCGAAGAAGGTGAGCGCAG  
TGCTGTGTGGCAGCAGAGGTCTTAGGACGAGGAACAGCGGGACGAGGAAGGGCAGACTGGTGAAATCGCAAAC  
GGGCGTCTGTTCCGGCACCGGACCCCTGTTTGC AAAGGTCCATGGCTAATGAAACACAGAAGGTTGGTGCCATCC  
ATTTTCCTTTTCCCTTACACCCCTATTCCATCCAGGAAGACTTCATGGCAGAGCTGTACCGGGTTTGGAGGCTG  
GCAAGATTGGGATATTTGAGAGTCCAACCTGGCACTGGGAAGTCCCTTAAGTCTTATTTGTGGGGCCCTCTCCTGGC  
TCCGTGACTTTGAACAGAAGAAGCGTGAAGAAGAGGCACGACTCCTTGAAACTGGAAGTGGCCCTTACATGATG  
AGAAAGATGAATCCCTGTGTCTGTCTTCTCCTCGCAAGGGGCTGCAGGCACCCCGAGGCTGTGGAGAACCGG  
CCTGGGTTACTCAGTTTGTGTCAGAAGAAGAAGAGAGGGACCTGGTGGACCGACTGAAGGTGGAGCAGGCCAGGA  
GGAAGCAGCGAGAAGAAGCGCTGCAGCAGCTGCAGCACAGGGTGCAGCTCAAGTATGCAGCCAAGCGCTGAGGC  
AGGAAGAAGAAGAAACAGAGAATCTCCTCCGCCTCAGCAGGGAGATGCTAGAGACAGGCCCGGAGGCCGAGCGGC  
TGGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCGCCGAATACGAGAGTGATGAGGAGAAAAAGGTGGCGA  
GCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAGATTTATCACTGTAGTCGGACACACT  
CCCAGCTGGCCCACTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAGGATGTTCCGCTGGTCTCCTCGGCT  
CCCGGCAGAACCTTTGTGTAAATGAAGACGTGAGAAGCCTAGGTTCTGTGCAGCTTATCAACGACCGCTGCGTGG  
ACATGCAGAGAAGCAGGCACGAGAAGAAGAAAGAGCTGAGGAGGAGAAGCCAAAGAGGAGGAGGCAGGAGAAGC  
AGGCAGCTGCCCTTCTACAACCACGAGCAGATGGGCTTCTCCGGGATGAGGCCCTGGCAGAGGTGAAGGACA  
TGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGCTGTCCCTATTACAGGAGCCGCTTGCCATCCCTGCAG  
CCCAGCTGGTGGTGTGCTGCCCTATCAGATGCTGCTGCATGCGGCCACTCGGCAGGCCCGCCGATCCGGCTGCAGG  
ACCAGGTGGTGTATCATCGACGAGGCGCACAACTGATCGACACCATCACGGGCATGCACAGCGTGGAGGTACGG  
GCTCCCAGCTCTGCCAGGCCCTTCCCAGCTGCTGCAGTACATGGAGCGATACGGGAAGCGTTTGAAGGCCAAGA  
ACCTGATGTACCTGAAGCAGATCCTGTATTTGCTGGAGAAATTCGTGGCTGTGCTAGGGGGGAACATTAAGCAAA  
ATCCCAATACACAGAGTCTGTACAGACAGGGACGGAGCTGAAGACCATCAACGACTTTCTCTCCAGAGCCAGA  
TCGACAACATCAACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATGATCAGCAGAAAGCTCTTTGGCTTCA  
CTGAACGGTACGGAGCAGTGTCTCATCCCGGAGCAGCCCAAAGTGGCTGGGTTTCAGCAATTCCTGCAGAGCC  
TGCAGCCCAGGACGACTGAAGCTCTTGCAGCCCTGCAGACGAGAGTCAGGCCAGCGTCCCGCAACCAGCTTCCC  
CACTAATGCACATCGAAGGCTTCTTGGCAGCTCTCACTACGGCCAACCAGGACGGCAGGGTCACTCTGAGCCGCC  
AAGGCAGCCTCAGTGAGAGCACCTGAAGTTTTTGTCTCTGAATCCAGCTGTGCACITTTGCCCAAGTGGTGAAGG  
AATGCCGGGAGTGGTCATTGCGGGGGGACCATGCAGCCGGTGTCTGACTTCCGGCAGCAGCTGCTGGCCCTGTG  
CTGGGGTGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTTCAGTGATCCCTCCAGACAACATCTGCCCTTGT  
CATCTGCAGCGGGATCTCAACCAGCCGCTGGAATTCACCTTCCAGAAAAGAGACCTGCCTCAGATGATATTCCA  
GGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTGGCGTATTCCAGGTGCATCCAGGCCCTGTGGCCAGGA  
GAGAGGCCAGGTGACAGAGGCCCTGCTCCTCTGTGGTTGGAGGAAAGATGAGTGAAGGGATCAACTTCTCTGA  
CAACCTAGGCCGGTGTGTGGTGTGATGGTGGGCATGCCCTTCCCCAACATCAGGTCTGCAGAGCTGCAGGAGAAGAT  
GGCCTACTTGGATCAAACCTTCCCAGAGCCCCCGGCCAGGCACCCCCAGGGAAGGCTCTGGTGGAGAACCTGTG  
CATGAAGGCCGTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAGAAAGGATTTTGCCAGCATAGTGCTCCTGGA  
CCAGCGATACGCCCGGCCCTGTCTGGCCAAGCTGCCGGCTGGATCCGAGCCAGTGTGGAGGTCAAAGCTAC  
CTTTGGCCCCGCCATTGTCTGTGTCAGAAAGTTTACCAGGAGAAAGTCGGCCTCTTCTGATGGGCAACCACACC  
ACCGCCCGGCGCCGTGCCCTTCTTTGTCTGCCCTCTGGAGACAGTGTTTGTCTGGGCGTGGTCTGCAGGGAT  
CCTGTTACAAAGGTGAAACCCAGGAGGAGTGTTGGAGTCCAGAGCGCTGCCGGGACCCAGGCACAGGCGTTAGC  
TCCCGTAGGAGAAAATGCGGGAATCCTGAATGAACAGTGGTCTGGCTGTCTTGGGGCGTTCCAGGGCAGCTC  
CCCTCCTGGAATAGAATCTTTCTTTCCATCTGCATGGCTGAGAGCCAGGCTTCTGCTTGGAGTCCGCAGGAGG  
CTGTGGCAGCAGTGGCATCCACTGTGGCATCTCCGTCTGCCACCTTAAGAGGCGAGATGGAGCAGGTCCATCT  
GCCTCTGCCCTTTCTAGCCAAGGTTATAGCTGCCCTGGACTGCTCACTCTCTGGTCTCAATTTAAATGATCCCG  
TGGCCACAGGGCTCCTGCCAGGGGCTTGTACCTTCCCCTCCTCCTTCTGAGTCACTCCTCAGTAGAAGGCC  
CTGCTCTCTATCCTGCCCCACAGCCCTGCCTGGATTGTATCCTTGGCTTCGTGCCAGTTCCTCCAAGTCTATGG  
CACCTCCCTCCCTCTCAACCACTTGAAGAACTCCAAGACACCTTCTACCCGACACCAGCAATTATGCCAAGGG  
CCATTAGGCTCTCAACATGACTATAGAGACCCGTATCATCATGGAGACCTTTGTTCTGTGGGAAAAATAACCTT  
CCCACCTGCAACAGCTGCCCTGTGACTGCGCTGTCTTCTCCCTTGACCCAGAGAAAGGGGCGGTGGTCAG

3779/6881  
**FIGURE 3483B**

CTGGGATCTTCTGCCACCATCAGGGACAAACCGGGGGCAGGAGGAAAGTCACTGATGCCCAGCTGTTTGCATCCT  
GCACAGCTACAGGTCCTTAATTAAAAGTGTACTGTTGGTT



3780/6881  
**FIGURE 3484**

MANETQKVGAIHFPFPFTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALSWLRDFEQKKREEEAR  
LLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAGEPAWVTQFVQKKEERDLVDRLKVEQARRKQREERLQQLQHR  
VOLKYAAKRLRQEEEEETENLLRLSREMLETGPEAERLEQLESCEEELVLAEYESDEEKKVASRVEDEDDDLEEEH  
ITKIYHCSRTHSQLAQFVHEVKKSPFGKDVRLVSLGSRQNLVNEVDVRSLSVQLINDRCVDMQRSRHEKKKGAE  
EEKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARACPYRSRLAIPAAQLVVLPHYQMLLHA  
ATRQAAGIRLQDQVVIIDEAHNLIDTITGMHSVEVSGSQLCQAHSQLLOYMERYGKRLKAKNLMYLKQILYLLEK  
FVAVLGGNIKQNPNQSLSQGTGTELKTINDFLFQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQP  
KLAGFQQFLQSLQPRTEALAAPADESQASVPQASPLMHIEGFLAALTANQDGRVILSRQGSLSSESTLKFLLL  
NPAVHFAQVVKECRAVVIAGGTMQPVSDFRQQLLACAGVEAERVVEFSCGHVIPPDNICPLSSAAGSPTSRRWNSP  
SRKETCLR

3781/6881  
**FIGURE 3485A**

TACAATACAGTCTGTCTCTCCAGCTCCTTCTTTCTGCAACATGGGGAAGAACAACTCCTTCATCCAAGTCTG  
GTTCTTCTCCTCTTGGTCTCTGCCCACAGACGCCTCAGTCTCTGGAAAACCGCAGTATATGGTTCTGGTCCCC  
TCCCTGCTCCACACTGAGACCACTGAGAAGGGCTGTGTCTTCTGAGCTACCTGAATGAGACAGTGACTGTAAGT  
GCTTCTTGGAGTCTGTCTAGGGGAAACAGGAGCCTCTTCACTGACCTGGAGGCGGAGAATGACGTACTCCACTGT  
GTCGCCTTCGTGTCTCCAAAGTCTTCATCCAATGAGGAGGTAATGTTCTCTCACTGTCCAAGTGAAAGGACCAACC  
CAAGAATTTAAGAAGCGGACCACAGTGATGGTTAAGAACGAGGACAGTCTGGTCTTTGTCCAGACAGACAAATCA  
ATCTACAAACCAGGGCAGACAGTGAAATTTCTGTGTCTCCATGGATGAAAACCTTACCCCCCTGAATGAGTTG  
ATTCCACTAGTATACATTACAGGATCCCAAAGGAAATCGCATCGCACAATGGCAGAGTTTCCAGTTAGAGGGTGCC  
CTCAAGCAATTTCTTTTCCCTCTCATCAGAGCCCTTCCAGGGCTCTACAAGGTGGTGGTACAGAAGAAATCA  
GGTGAAGGACAGAGCACCTTTTACCGTGGAGGAATTTGTTCTTCCCAAGTTTGAAGTACAAGTAACAGTGCCA  
AAGATAATCACCATCTTGAAGAAGAGATGAATGTATCAGTGTGTGGCCTATACACATATGGGAAGCCTGTCCCT  
GGACATGTGACTGTGAGCATTTCAGAGAAAGTATAGTGACGCTTCCGACTGCCACGGTGAAGATTACAGGCTTTC  
TGTGAGAAATTCAGTGGACAGCTAAACAGCCATGGCTGCTTCTATCAGCAAGTAAAAACCAAGGTCTTCCAGCTG  
AAGAGGAAGGAGTATGAAATGAACTTCACACTGAGGCCAGATCCAGAAGAAGGAACAGTGGTGGAAATGACT  
GGAAGGCAGTCCAGTGAAATCACAGAACCATAACCAAACCTCTCATTTGTGAAAGTGGACTCACACTTTCGACAG  
GGAATTCCTTCTTTGGGCAGGTGCGCCTAGTAGATGGGAAAGGCGTCCCTATACCAAATAAAGTCATATTCAATC  
AGAGGAAATGAAGCAAACCTATTACTCCAATGCTACCAGGATGAGCATGGCCTTGTACAGTTCTCTATCAACACC  
ACCAATGTTATGGGTACCTCTCTTACTGTTAGGGTCAATTACAAGGATCGTAGTCCCTGTTACGGCTACCAAGTGG  
GTGTCAGAAGAACACGAAGAGGCACATCACACTGCTTATCTTGTGTTCTCCCAAGCAAGAGCTTTGTCCACCTT  
GAGCCCATGTCTCATGAACTACCCTGTGGCCATACTCAGACAGTCCAGGCACATTATATTCTGAATGGAGGCACC  
CTGTGGGGCTGAAGAAGCTCTCCTTCTATTATCTGATAATGGCAAAGGGAGGCATTGTCCGAAGTGGGACTCAT  
GGACTGCTTGTGAAGCAGGAAGACATGAAGGGCCATTTTCCATCTCAATCCCTGTGAAGTCAGACATTGCTCCT  
GTCGCTCGGTTGCTCATCTATGCTGTTTTACCTACCGGGGACGTGATTGGGGATTCTGCAAAATATGATGTTGAA  
AATTGCTGCGCAACAAGGTGGATTTGAGCTTCAGCCCATCACAAGTCTCCAGCCTCACACGCCACCTGCGGA  
GTCACAGCGGCTCCTCAGTCCGTCTGCGCCCTCCGTGCTGTGGACCAAGCGTGCTGCTCATGAAGCCTGATGCT  
GAGCTCTCGGCGTCTCGGTTTACAACCTGCTACCAGAAAAGGACCTCACTGGCTTCCCTGGGCCCTTTGAATGAC  
CAGGACAATGAAGACTGCATCAATCGTCATAATGTCTATATTAATGGAATCACATATACTCCAGTATCAAGTACA  
AATGAAAAGGATATGTACAGCTTCTTAGAGGACATGGGCTTAAAGGCATTACCAACTCAAAGATTCGTAAACCC  
AAAATGTGTCCACAGCTTCAACAGTATGAAATGCATGGACCTGAAGGTCTACGTGTAGGTTTTATGAGTCAGAT  
GTAATGGGAAGAGGCCATGCACGCCTGGTGCATGTTGAAGAGCCTCACACGGAGACCGTACGAAAGTACTTCCCT  
GAGACATGGATCTGGGATTTGGTGGTGGTAAACTCAGCAGGTGTGGCTGAGGTAGGAGTAACAGTCCCTGACACC  
ATCACCGAGTGGAAGGCAGGGCCTTCTGCCTGTCTGAAGATGCTGGACTTGGTATCTCTTCCACTGCCTCTCTC  
CGAGCCTTCCAGCCCTTCTTGTGGAGCTCACAATGCCTTACTCTGTGATTCTGTGGAGAGGCCTTACACTCAAG  
GCCACGGTCTAAACTACCTTCCAAATGCATCCGGGTCAAGTGTGCAGCTGGAAGCCTCTCCGCGCTTCCCTAGCT  
GTCCAGTGGAGAAGGAACAAGCGCCTCACTGCATCTGTGCAACGGGCGGCAACTGTGTCTGGGCGAGTAACC  
CCAAAGTCATTAGGAAATGGAATTTCACTGTGAGCGCAGAGGCACTAGAGTCTCAAGAGCTGTGTGGGACTGAG  
GTGCCTTCAGTTCTGAACACGGAAGGAAGACACAGTCATCAAGCCTCTGTTGGTTGAACCTGAAGGACTAGAG  
AAGGAAACAACATTCAACTCCCTACTTTGTCCATCAGGTGGTGAAGTTTCTGAAGAATTATCCCTGAAACTGCCA  
CCAAATGTGGTAGAAGAATCTGCCCAGCTTCTGTCTCAGTTTGGGAGACATATTAGGCTCTGCCATGCAAAAC  
ACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAAATATGGTCTCTTTGCTCCTAACATCTATGTA  
CTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGATCAAGTCCAAGGCCATTGGCTATCTCAACACTGGT  
TACCAGAGACAGTTGAACTACAAACACTATGATGGCTCTACAGCACCTTTGGGGAGCGATATGGCAGGAACCAG  
GGCAACACCTGGCTCACAGCCTTGTCTGAAGACTTTTGCCCAAGCTCGAGCCTACATCTTCATCGATGAAGCA  
CACATTACCCAGCCCTCATATGGCTCTCCAGAGGCAGAAGGACAATGGCTGTTTCAGGAGCTCTGGGTCACTG  
CTCAACAATGCCATAAAGGGAGGAGTAGAAGATGAAGTGACCTTCCGCTATATCACCATCGCCCTTCTGGAG  
ATTCTCTCACAGTCACTCACCTGTTGTCCGCAATGCCCTGTTTGGCTGGAGTCAGCCTGGAAGACAGCACA  
GAAGGGGACCATGGCAGCCATGTATATACCAAGCACTGCTGGCCTATGCTTTTGGCCTGGCAGGTAACCAGGAC  
AAGAGGAAGGAAGTACTCAAGTCACTTAATGAGGAAGCTGTGAAGAAAGACAACCTCTGTCCATTGGGAGCGCCCT

3782/6881

**FIGURE 3485B**

CAGAAACCCAAGGCACCAAGTGGGGCATTTTTACGAACCCAGGCTCCCTCTGCTGAGGTGGAGATGACATCCTAT  
GTGCTCCTCGCTTATCTCACGGCCCAGCCAGCCCCAACCTCGGAGGACCTGACCTCTGCAACCAACATCGTGAAG  
TGGATCACGAAGCAGCAGAATGCCCAGGGCGGTTTTCTCCTCCACCCAGGACACAGTGGTGGCTCTCCATGCTCTG  
TCCAAATATGGAGCAGCCACATTTACCAGGACTGGGAAGGCTGCACAGGTGACTATCCAGTCTTCAGGGACATTT  
TCCAGCAAATTCCAAGTGGACAACAACAACCGCCTGTTACTGCAGCAGGTCTCATTGCCAGAGCTGCCTGGGGAA  
TACAGCATGAAAGTGACAGGAGAAGGATGTGTCTACCTCCAGACATCCTTGAAATACAATATTCTCCAGAAAAG  
GAAGAGTTCCCTTTTGCTTTAGGAGTGCAGACTCTGCCTCAAACCTTGATGAACCCAAAGCCACACCAGCTTC  
CAAATCTCCCTAAGTGTGAGTTACACAGGGAGCCGCTCTGCCTCCAACATGGCGATCGTTGATGTGAAGATGGTC  
TCTGGCTTCATTCCCTGAAGCCAACAGTGAAAATGCTTGAAAGATCTAACCATGTGAGCCGGACAGAAGTCAGC  
AGCAACCATGTCTTGATTTACCTTGATAAGGTGTCAAATCAGACACTGAGCTTGTTCTTCACGGTTCTGCAAGAT  
GTCCAGTAAGAGATCTGAAACCAGCCATAGTGAAAGTCTATGATTACTACGAGACGGATGAGTTTGCAATTGCT  
GAGTACAATGCTCCTTGACAGCAAAGATCTTGAAATGCTTGAAGACCACAAGGCTGAAAAGTGCTTTGCTGGAGT  
CCTGTTCTCAGAGCTCCACAGAAGACACGTGTTTTTGTATCTTTAAAGACTTGATGAATAAACACTTTTTCTGGT  
C

3783/6881  
**FIGURE 3486**

CATCAGCCCAGCCTGCAAGGAGGCGCCACCGGACCTGCACACTCAGGAGCAGACTCAGCTAGATTGGAAGAGAGG  
ATGGGAAGACAATGGATGACCTACCTGTGGAGAGAACTACCCATTCCAGAACCTCCTCTCTGCTGAAAGCTGAA  
CACTCAATGGGAAGACCTGTTTGCAGAGAGGAGCCAGCCACTCCAGGGTCTCCGTTCTGCTAGAAGCTGAACACT  
CGTTGGGACACCCCTTGCTGTGGAAAGGACATCCTTACTGTGGAAATGAGCTACTAACTGCAGGAGCTGAGGAGCT  
GCACAGCAAGGTTAAAGAGCTGTAAACACAAACAGGGCTGCAACATGCCCTTGCTCCCCACAGGGAGAGAAGAG  
CTCTGGCCCTCGGAGAAGCCCAGACCTGGGAGCTCCTTGAGCCCGGGCTGTGACTCCCTCTTTGGGGCCCTGGTT  
GGCGTCACTGCATTGCGCAGTGCCACTGTTGGAAGCTGCTTGTGATGCGCCTGGTCCAGGGGGAAGCTGTTTGT  
GTGTGCCTGGTCCAGCCACCTCATGGAGAGCCTGTGCTGGCACCTGGAGCTGCCAACCTGGGCAGCAGCTTGTG  
TGTGTGACTGCACAGTGGCCACGCTTGCTCACACACCCCTAGCACACCCCTCTGTCCACCCGCTCTCAATCTCCC  
TTGGATCCGGGATCCAGGTTGGTAGCAAGTGCAGTGGGCAGAAAGCAGCCAGTGGGCCAGAGCAAACTCAGG  
CAAAGGTGCCACTAGACTGGCCAGGAAAGCGACACCCCTAAAGATCCCATATGCTGATATGTTAATCTATTCTA  
TAAGCACCACACAGAAGTGATAGCTTTTATTTCTTATTTTGTCTAGCCTGGAGACAGAGCTAAGGATTCCCTTGA  
CTGCAAAGTCTTTCCAGTTCTTAGTTTATACAACTCATACTACCTTCTGCCTAACTAAGCATTGTCATTTTG  
TGCCAAATGAAGAGTAGGACTCCTACGATTGTCTCAGACTCTCTTGGCTCAATCCTCTGCTTTAACCTTTCT  
ACTTCAAAACTCCTGAAGTTTGTCTCCCCTTCTATAGAATGGAAATATATGTCGCAATACTTACTGCAAAGAA  
AATTATATATTTTAAAAATAGACTAAAGAGATGTTGTGAGACATCAGACATCAATCAGATGTTGTGAGAACTGAT  
TTCTGCATCAGAAATATCTCCTTGACTTTACAGCTATCCTTTAATCCTGGCTCAAAGTCCAGAAGAAAGATGATC  
CAATATAATACTCCTATTTGGACTTTGAGTCATACACATTCTTCTCTGAGAAAACGTGCTTCTGCATGAATCC  
TCCCTTCATTATTTTCAGCTCATCTATTATTGAATCTGAAACCCCAGGTAACTGACTGATCACTCTCATCAGTG  
GCAGATTTTGGTGTAAACATAGGACACATCACTCCCAATTCAGGTCAAGTCCCAATTATCTTGCCTCTCAATATGA  
CATGTTCAATGTTGTATTTCACTTCACTTTTAAATGTAAAAAGTCTTTTCTGGTGAAGTCAGTCTTTTATTT  
TCTCATAAAAATTACCCCTTTGGGTTTTTCATAGGGTATTCCTATAACCAAAACACACTTTTACACTTTCCTAGTAC  
ATAACCCAATACTTTCTTCTTTCCCCACAGTCTTACATGAAGCCTACTCAGACCGACATCACTGTATCATTTTT  
TTGTATTCTGAAGTCTTCAGCACTTGATTCTTTAAGTTTAACTCTGGTATTCTATTGGGAATCATATGGAAAT  
GTACAATGATATTTATTGAATGAACAGGAAACAGGGAAGACATTGACCAGAAAAAGTGTATTATCATCAAGTCT  
TTAAAGATACAAAAACAGTGTCTTCTGTGGAGCTCTGAGAACAGGACTCCAGCAAAGCACTTTTCAGCCTTGTG  
GTCTTCAAGCATTTCGAAGATCTGTGACATTGGAAAGAAAAAAATTAAGACAGATTGGGTCTCCATGAGCAGA  
GAGTATTCTTTCCCTTAGTTCTGGGTAGCATAGTGCCCAAGGAAACCTAATCAGTACAGTGGGAAACCAATCTA  
TTCCAAATCATTACCCATAAGCAATCCTATGGACTCTCTGAGGTTTGACAGAGTCAGCGGCCCTCTCCAATAAAT  
GTGTTTTCTAT

3784/6881  
**FIGURE 3487**

MRLVQGEAVCCVPGPATSWRACAGTWSCPTWAAACVCDCTVATLAHTPLAHPSAPPVSI  
SLGSGIQVGSKEWAE  
AAQWAQSKTQAKVPLDWPGKRHPKDPIMLIC

3785/6881  
**FIGURE 3488**

ACTCGAACCCTACCCGGGAGCGGTCAGGCGCGTGACCCCGCGTGACCGGGGTGCGCGAGCCGAGAGGCCCTGGAA  
GCGGGACTCTGGGACCCCATTTGAAAGAAAGGCAACCAGAAAAGGCGAAACGACAACCTCGATAGTGATTGGAGCT  
GATGGAACGAGGGCGGAGCTAAAGTCCCAGAACTAGTGGCCAATCAGAGTTTAAGATTATCAGGGAGCCCGGGAAG  
GGGAAAGGGGCGAAATGGTTCTATGGTCACATGCCGCGGGGTCTGGTGGGAGGAGCGGTTGCCAGCGGCCCTCTT  
GGCGCTTCTGTTCGGTTCCCAGAGTGGGGCACAGCGAGGCGCTAGGGGGAACGCTGGCCTCTGAAACTAGCT  
CTGGGACCGGGGTCTGCGGCCGGCCCTAGCTGGCCCCGTCTCCCATCCCAGAAGGGTATTCACTGGGGATTCT  
GAGCTTTGGCTACTCCAGTTTCCCACGACACGTGAGTGTGAGGGGCGTGGAGGAGGAGCGGGCTGGGTTGCGCT  
CACACTTAAGCGTCTGTGACAGGAGCCGGAATCGCATTCTCCCTTGACCATGGTTCTAGCCAAAGATCTGGCTGA  
GGAGCCCTAAGGGTAGAATGGAGGCGGAGGCATGAGAGCGGAGAGTACGGAGTTCCGAAAGGTGTGAGGGAGAA  
AGGACTTCCAAGACCAGAGAGGGGATTTACGATATTTAGAAAGCAGGGAAAGGAAAATACCCCAAGTATGGAGTC  
CGTTGGAGGTGTTGGTGGATTTATTTGTAGGAGGAATTTGGCCTGCATCACGGTGGGAGGTCAAGTGGCATCAT  
TTGGAGAGGGTATGGCTACAAGCGCTTGGAAAGTCGGGACACTAGACAGAGCGAGAATTTCTGGCACCCCTGGGAG  
AGCTTTGAGGGGGATGCGACTGTGGTGTGGATAAGAAATGGCTGATGGACGGATTATCTTGTGTTTCTCGTTGTGG  
GGAGCTTCGCTCTTGGGACATAGCCGCTACTTGTCTGAGGCCTCTTCTCTTTGAGTTCTTTTCAGCATTAGGCC  
TTTTAGCCAATTGAGGCTGCTTTTCTAAACATGTAGGCTGCTGGAGAAAAGGGATAAGGACTGCTACATCAGAA  
AGGAGCCAGCGGGAAGACAGTAGAAATCCACTGGTAAATGGCCATGGCTGTCTTAACAGATGGGGAAGTGAGTG  
CTACAGAGGCCCAGTGGTGTAAGCTGCTTCCCAGTTGCTGGCCTTAGTCATTGGCCACCCTAATAAAGGATAATTT  
TTAGCATTGCCAAATAAAATAGATCTGTCGTTAGAGAATAAGAAAAGTGAAGATTTTTCAAGATCATAAAATCC  
TGCTCCTTATTTCCAAAGTATATAGACAACTCTTGTACCTTGAGAATCTAATTGTAGCATATTTAAAGGGGGCT  
ACTGGGCCCTTCCATTTCATTCTCTTCTGATTGTTGCAACCCCTATGTTTATAAGTTTTCCAGCAGTTATCTTTA  
TGCCACGAATCGTCTAAATTGCCCCAGTAACCTTACACACATTTAATATCTGTGTAATGTACAGCAAGTAATTTA  
ACAAGTAATTCTGTAAAGCATCAGTTTTCTCATCTGTGAAGTATGAAAAATTATACCTATTTTCTGGGTTGTGAA  
GATGAATGAACATAATCTAGGGAAAACATTTAGCGCATATGCCACTGAATTAAAGAGAAGCAGCTTAAATTTAAA  
GACAAGCCCTAAGCAGGAAAGAAGAATACAGTATAAATTTATTATCCTAAGTTTTTGAATAATAAGCAAATGAAA  
GATAGTTCAACTCAGCTAATGGCTGAGGTGTTAACCTTTCATCCCTTCCTAATTTTGTGAGATTCTTGTCTTA  
ATTTAGGAAAAGAAATCAACTGTCTAGTTTTTAATTAGGTCCTGAGAGACTGGAAAGGAAAATGGCAGGCTAAGTC  
AGTCTAGAAGAAGGAGTCTCCTATTTCTTTTAGTGAGTCAGCTGGTCAAGTTGTGTGTTGAGCAGTGGGTTAAC  
TTAGGGAAGGTGGGAGTTGGAGGTCTGAGTTCTTTATTTACCTCCTATTCACTCACTGTGTGAGGAATCACTT  
CCCCTTCACTTCTTAGT

3786/6881  
**FIGURE 3489**

TTCCGGTTCCTCCAGAGTGGGGCACAGCGAGGCGCTAGGGGGAACGCTGGCCTCTGAACTAGCTCTGGGACCGGGG  
TCTGCGGCCGCCCCCTAGCTGGCCCCGTCTCCCATCCCCAGAAGGGTATTCACTGGGGATTCTGAGCTTTGGCTA  
CTCCAGTTTCCACGACACGATGTTCCCTTTTACAGCTGCTGGAGGACTGGACTGCTACTACTCTCTGGCTG  
TGGCAGTGAGAGAATCCTGGCAGACAGAAGAAAAAAGCTTGGCAGCTTGGTAGGAGAAAAGGGTAAAGAGTCAGAGA  
AAGAGTTGGCTCTAGTGAAGAGGCTGAAACCACTGTTTAATAAAAGCTTTGAGAGCACTGTGGGCCAGGGTTCAG  
ACACATACATCTACATCTTCAGGGTGTGCCGGGAAGCTGGCAACCACACTTCTGGGGCAGGCCTGGTGCAAAATCA  
ACAAAAGTAATGGGAAGGAGACAGTGGTAGGGAGACTCAACGAGACTCACATCTTCAACGGAAGTAATTGGATCA  
TGCTGATCTATAAAGGGGGTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCAGTGGTGATGATCT  
CCTGCAATCGACACACCCTAGCGGACAATTTTAAACCTGTGTCTGAGGAGCGTGGCAAAGTCCAAGATTGTTTCT  
ACCTCTTTGAGATGGATAGCAGCCTGGCCTGTTACCAGAGATCTCCACCTCAGTGTGGGTTCATCTTACTTG  
TCACGTTTGATCACTGGTTGCTGTTTATGTTGTTGGGGGGTTCCTATACCAGCGACTGGTAGTGAGCCAAAG  
GAATGGAGCAGTTTCCCCACTTAGCCTTCTGGCAGGATCTTGGCAACCTGGTAGCAGATGGCTGTGACTTTGTCT  
GCCGTTCTAAACCTCGAAATGTGCCTGCAGCATATCGTGGTGTGGGGGATGACCAGCTGGGGGAGGAGTCAGAA  
AAAGGGATGACCAATTTATTACCAATGTAGATTGCACTTTATATGTCCAGCCTCTTCTCAGTCCCCCAAACAAA  
GCTACACAGCCAGATTTCTCAAGCAGTCTCAACTCCAGTCCCTCATCTCACCTTACTATTGCTCTTGCTTTCCA  
GTTTGCTTTTGATTTGCATCTTCTCACTAGTAAACTGCCTTCCCTTTGTTTCTTATTTCTGTTTTTCTCTAG  
AGAGGTACAGTTGTAAGTCAGAGTTAATATAATAGGGCCTGTGAAAACAGAGGCTTTTGCAATTGTCTCTTGACAT  
CAGAAGTTACAATAGGCATATGGGCAAAATGGTGTAGCAGGCTCACTGGCCGTTTGTTTTTAAACACATTTTCA  
CAAGTTTTTGAGACACTGGATTCTTTAATTAATAAAAAAATGCCAAGAAACATTATTTATACAGGGTTGATTGC  
TTTCATGTTGTTATTCTGTACCTATAGTAGCCTCCATGAGAATCTGGTATTTCTTGCTGCTTGGAACACTTTG  
CAGTGATTACTTGGTTGCAGTCCAAGTACTCTCGTTTAGTCTGAGCCTGGAGATGTTCTAGACTTGCTTCTCCCA  
CCTCTGAGATTAGGACAGGAAAAATGTGAAATTTCCCAATTACAGGATTATACGGTACCATCACATCATTGTGG  
AAATTGGGGTGACTGTATAGCTGGGATTGGGCTAAGGACTGTGGTCTTATCTGTCCACATACAGCCAAATGCCT  
ATCCAGAAATCCAGTTTCGTTGGAAAGGAAAATGGTACTCTGTGCCACAGGGGTTCAGAAAAGGGAAGTCACT  
TTACCTTGCGGTGGTGGGATCCTGATGTCTTTCATCCATTTGTAGTAAAAGCTGGTAAAGCTTTTCTTACTCCTG  
GTTCCCTACCAGTATTTCTAAACATGTGCGACTTTCTCCACAGGCATGTGGTTTTGACCTTTTTTCAATCTTCT  
AGAAAGGGAACGGAAGCAGAAGTGGGACATCGAGGGCTCTGCTGTCTCTGCGCTGGGTGTGGAATGCTGCTGCA  
CCTGTCCCTTCTGCTGGCTCAGGGAAGTGTCTTCTTGCCACATTTCTGTGGGGAAGGTTTTTAATCCTCTGAT  
GCTTCCATCTTCTGTTTAGGCCATGTGCCAGAAACCTGGACTGATCTTTCTTTAATAGTGAACCCCTGGGCCA  
CTGAAGAGTAACATGGCTCCACTGGACACAAAAGAGGGATGGAATCAACAGGCAGGGGGCCTTTTATAAGCCTTA  
GGAAAAGAAAATGAACTATTTTCATCTTTGGACTTTTCAATACTATTGGAGTGATTTTTTCTTTCTAAACAGGG  
AAAATAATGTTACAAAAGCATCTTTTTGTTATTTGTTGCATCCCTCCCCACACCCTGGTGTTTTAAATGAA  
GAAAAAAACCATCACCTTTTGTACAAAACCTCTTAATGATTAAAAACAAACA

3787/6881  
**FIGURE 3490**

MFPFYSCWRTGLLLLLLAVAVRESWQTEEKTCDLVGEKGKESEKELALVKRLKPLFNKSFESTVGQGSPTYIYIF  
RVCREAGNHTSGAGLVQINKSNGKETVVGRNLNETHIFNGSNWIMLIYKGGDEYDNHCGKEQRRAVVMISCNRHTL  
ADNFNPVSEERGKVQDCFYLFEMDSSLACSPESHLSVGSILLVTFASLVAVYVVGFLYQRLVVGAKGMEQFPH  
LAFWQDLGNLVADGCD FVCRSKPRNVPAAYRGVGGDQLGEESEERDDHLLPM



3788/6881  
**FIGURE 3491**

CTGAGCTGTCCCTGCAGGACTCCAGTGGAAGTGAAGAAGTGGGCACCGGGGAAAAGCTAGGATGTCCACACTC  
CTACACCATGCAGGGAAGTCTGGGCACAGGCCGGCTGGGCCGGGATCAGATGGGAAGCAGAAGCTCATCATGACCA  
GAAACTGTTTCCCTACGGAGAGCACTTGGAGATGGCAATGCTGAACCTCACACTGTAGGACTCACACACGACTCT  
AACGGGATTGTAAGAATCAAGTCACTCTCATGGGAAGAATTTTATATGGGAAAGCGGCTAAACTTTTCATTGGA  
CTGGAATGTTTGGAGATTGTTAAATTCCAAATCAGGAACCACAAACTGCCCTCTAATAAGATATCAGCTGTCTAA  
GCGTGTGGGTGCCGCCCTTCTGCCAGTAGTTCTGGTTCTTAAGAAAAGCACCATAAATCAGACATGAAAATTCTG  
GCTCCAAAAATAGCATTCTTTGTGCAATAAAAACGTGTGTATCAAGTATGACGTTCCCCAACGTGGACACA  
CTTGGTTCCCTCAGAAAGCCAAGCCCCTGCAGCTGCCACATCCAGGGCTTATGGTGCAGCAGGTGCTTTTTTCA  
AGACAGGAATCAAAGTGTTAGGAACACGGCAGACAGGTGACACCTGGATACCAAATGCAGGATGAGGAGTACTGC  
AGAGGTCACAGGGAAGTCACAGAACAGTAATACGCTAGCAGGGGCATGGGGCGTGAAGAACAGAAGAAGACAGTT  
TGAGAAAAGCATCTGCAAAATGCTAAAGAGCAGAGCTTACCTCATTGCCTGTCCCCATCTCATCCAGGTCACCA  
CCTGGCTGACCCAGGTCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAACTCCCTCACTTGGACTTGAGACC  
CTTCACAACCCAGCAGCGCTCCGCCCTCAACGTGACATCATGCTTTCTGGAAACTTCCCGTATGTCCCACCTTC  
CCACACTTGGTGCCCTGGAGCACCTTCCGGCTCTACATGCTGTACGTTCCCTGTGAGCACCTCCTCTCGGCC  
TCTGGCCAACACAGTCCCACCCATCTGTGGTAACAAACGGGTGTGTGTGTTCTTTTCAGCCTTGCTAAACTGTC  
TGAATCAAGGATCACAACTACAGCCTGCAGGCCAAAGCCAGCCCACAGCCTGTGTTGTAAATAAAGCTTTATT  
GGAACAAAGCCACACCCCTTAATCTACAGATGATCTGTGGCTACTTTCACACCACAACAGAGTACCATGGTTCTG  
ACAGAGACTGGGGGACCTGTCTAAATGACTTCTGACCTGGACCTTTACTGAAAATCCTCCCAATCATTCTGTTG  
ACAAGAATGGTGTATTACTTTTTGCAATAAGAAACAAGTAACCTTTGCAGAAATCCACCCATCTTCAAGGCTGA  
TCCCAGAAGTTCCCTCTGCCCACGCACCTACCTGATCCTGATCACTTCCTAAACTGCAGCCCAGGCCACCCGGCT  
CCAGCATCATTGTGGAGTCTCAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCCTAATTTCCCGAGCCT  
ACTGTACCGAAACAGGACAGCAGAGTAGGAAGCCTCTGTGACTTCTGCTCCCTCCCTAGCTTTTCCACCAGACCC  
TGCATGGCTCCACCCCTGGCTGTGTGAAGCAGGGATCAGGGAGCGTGGCTCGATGTCAGTCTCCAGAACCCTGTCC  
ACCTGGCGTGGTGGCAGACATGGCTACCTGCAGCTGAGCTGCCAGTTCCCTCTGAGTCCTCAAAGACCAGGCCAT  
TTTCTTTATGTTTCACCAGCTCATGTAAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACAC  
CAGACCCCTGGGGTGCCCAGCTGGGCTCCACCCACCCACGCTCAAGCCAGGCTGGGGGTTGGAACAGGGGGTG  
TGGTTTCTGGGAGCTGGTTCTTAGATTGGCATCTGAAGGGTATAAAGGCCCTGGGGGGGGTGACATCAAAATGA  
CCAAATCGATTTGAGGAGAGAGCCTTAAGGAAGGTTTGACCTTCTGTGCTGGATGCTCTTCAAGGACTGAAGAA  
TTATTTTTCATGTTTTTCTTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTTCAGCAC  
ATAAAAGATGACTTTTCTAGGACACC

3789/6881  
**FIGURE 3492**

MVPPWLCEAGIRERGSMSVSRTLSTLAWQTLPAELPVPLSPQRP GHFLYVSPA HVNCRENQGS LRAAWGRHQ  
TPGVPSWAPTHPTLKPGWGLEQGVWFLGAGS

TTGGGGTGGGGTGGGGCTGGGGGCTTGTGCGCCCTTTTCAGGCTCCACCCTTTGCGGAGATTATAAATAGTCAATGAT  
CCCAGCGAGACCCAGAGATGCTGTAATGGTAAGACTTTGGATCCTTCCTGAGGACGTGGAGAAAACCTTGCTGCTG  
AGAAGGACATTTTGAAGGTTTTGTTGGCTGAAAAAGCTGTTTCTGGAATCACCCCTAGATCTTTCTTGAAGACTT  
GAATTAGATTACAGCGATGGGGACACAGAAGGTCACCCAGCTCTGATATTTGCCATCACAGTTGCTACAATCGG  
CTCTTTCCAATTTGGCTACAACACTGGGGTCATCAATGCTCCTGAGAAGATCATAAAGGAATTTATCAATAAAAAC  
TTTGACGGACAAGGGAATGCCCCACCCTCTGAGGTGCTGCTCACGTCTCTCTGGTCTTGTCTGTGGCCATATT  
TTCCGTCGGGGGTATGATCGGCTCCTTTTCCGTCGGACTCTTCGTCAACCGCTTTGGCAGGCGCAATTCAATGCT  
GATTGTCAACCTGTTGGCTGTCACTGGTGGCTGCTTTATGGGACTGTGTAAAGTAGCTAAGTCGGTTGAAATGCT  
GATCCTGGGTGCTTGGTTATTGGCCTCTTCTGCGGACTCTGCACAGGTTTTGTGCCCATGTACATTGGAGAGAT  
CTCGCCTACTGCCCTGCGGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATCGTTGTTGGAATTCTGGTGGCCCA  
GATCTTTGGTCTGGAATTCATCCTTGGGTCTGAAGAGCTATGGCCGCTGCTACTGGGTTTTACCATCCTTCCTGC  
TATCCTACAAAGTGCAGCCCTTCCATTTTGGCCTGAAAGTCCCAGATTTTGTCTATTAAACAGAAAAGAAGAGGA  
GAATGCTAAGCAGATCCTCCAGCGGTTGTGGGGCACCCAGGATGTATCCAAGACATCCAGGAGATGAAAGATGA  
GAGTGCAAGGATGTCACAAGAAAAGCAAGTCACCGTGTAGAGCTCTTTAGAGTGTCCAGCTACCGACAGCCCAT  
CATCATTTCCATTGTGCTCCAGCTCTCTCAGCAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAAT  
CTTCAAGGATGCAAGTGTTCAGAGCCCCATCTATGCCACCATCGGCGCGGGTGTGGTTAATACTATCTTCACTGT  
AGTTTCTCTATTTCTGGTGGAAAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTTTG  
TTCCACGCTCATGACTGTTTCTTTGTTATTAAAGGATAACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTAT  
CTTGGTCTTTGTAGCCTTCTTTGAAATTGGACCAGGCCCATTCCTGTGTTATTGTGGCCGAACCTCTTCAGCCA  
GGGCCCCCGCCAGCTGCGATGGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAACCTCCTAGTCGGATTGCTCTT  
CCCCCTCCGCTGCTCACTATTTAGGAGCCTACGTTTTTATTATCTTCACCGGCTTCCTCATTACCTTCTTGGCTTT  
TACCTTCTTCAAGTCCCTGAGACCCGTGGCAGGACTTTTGAGGATATCACACGGGCCCTTGAAGGGCAGGCACA  
CGGTGCAGATAGATCTGGAAAGGACGGCGTCATGGAGATGAACAGCATCGAGCCTGCTAAGGAGACCACCACCA  
TGCTAAAGTCGTGCCCTCCTTCCACCTCCCTCCCGGCATGGGAAAGCCACCTCTCCCTCAACAAGGGAGAGACCT  
ATCAGGATGAACCCAGGACGCTTCTGAATGCTGCTACTTAATTCCTTCTCATCCACGCACTCCATGAGCACCC  
CAAGGCTGCGGTTTGTGGATCTTCAATGGCTTTTTAAATTTTATTCTCGACATCCTCTTCTGCTTAGGAGAG  
ACCGAGTGAACCTACCTTCATTTAGGAGGGATTGGCCGCTTGGCACATGACAACCTTGGCAGCTTTTCTCCT  
TGGGTTCTGATATTGCCGCACTAGGGGATATAGGAGAGGAAAAGTAAGGTGCAGTTCGCCAACCTCAGACTTAC  
CAGGAAGCAGATACATATGAGTGTGGAAGCCGGAGGGTGTATTGTAAGAGCACCTTCCTCACTCCATACAGCT  
CTACGTGGCAAATTAACCTGAGTTTTATTATTTTATCCTCTGGTTTTAATTACATAATTTTTTTTTTTAACTTT  
AAGTTTCAGGATACATGTGCCGAATGTGCAGGTTTGTACATAGGTATATATATGCCATGATGGAATATTTATT  
TTTTTAAGCGTAATTTTGCCAAATAATAAAAAAGGAAATTGAGATTAGAGGGAGGTGTTTAAAGAGAGGTT  
ATAGAGTAGAAGATTTGATGCTGGAGAGGTTAAGGTGCAATAAGAATTTAGGGAGAAATGTTGTTCAATTATTGG  
GGGTAATGATGTGGTGCCTGAGGTCTGTACGTTACCTCTTAACAATTTCTGTCCTTCAGATGGAACCTCTTTAA  
CTTCTCGTAAAGTCAATACCTATATAATAAAGCTACTGATTTCTTTGGAGCTTTTTTCTTTTAAGATAATAGT  
TTACATGTAGTAGTACTTGAAATCTAGGATTATTAATAATATGGGCATGTAGTTAATGATGTTGATGGGTTT  
TAATTTTGGATGGAGTCCAGGGAAGAGAAAGTGATTTCTAGAAAGCCTGTTCCTCATGGATGAAATAACTCC  
TTCTGTAGTAGTCTCATTACTTTGAAGTAATCCCGCCACCTATCTCGTGGGAGAGCCTCCAATAAGAAACC  
TAAATAAATTGGTTCTTGGTAGAGATTTATTTTCCACTTTGTCTTTAGGAGATTTAGGTGTTGATTTTT  
GCTGTGTTTAACTCATACCTTTAAAGGAATCCCCAAAGAAATGTTTATAGCAAACCTTGAATTTGTAACCTCA  
TGTTCTGGGAGAGGATTTTTTTCTGAGCGATTATTATCTAAAGTGTGTTGTTGCTTTAGGCTACGGCACGCTTGC  
GTATGTCTGTTACCATGTCACTGTGGTCCATGCGCAATGCCCTCAGGGGACTTGAATCTTTCCAATAAACCAGG  
TTTAGACAGTATGAGTCAATGTGCAGTGTAGCCACACTTGAGAGGATGAATGTATGTCACTGTCACTTTGCTC  
TGGGTGGAAGTACGTTATTGTTGACTTATTTTCTCTGTGTTTGTTCCTACAGCCCTTTTTTCATATGTTGCTCAG  
TCTCCCTTTCCCTTCTTGGTGTCTACACATCTCAGACCCTTTAGCCAAACCCTTGTCACTGACAGTATTTTGGT  
CTTAGTTCTCACTGTTCCCTCTGCTCCTGGAGCCTTTGAATAAAAAATGCACGTAGCTGAGGCCGGATGCGGTGGC  
TCACGCCTGTAATCCAGCACTTTGGGAGGCCTAGGCGGGCGGTGAGGGTTTCAGACCAGTCTGGCCAACATCG  
TGAAACCCTGTCTCTACTAAAAATGCAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTAATCCAGCTACTTGG

3791/6881  
**FIGURE 3493B**

GAAGCTGAGGCGGGAGAATCATGTGAACCCGGGACGCAGGGGTTGCAGTGAGCGGAGATCGCATCATTGCACTCT  
AGCCTGGGCCACAGGGCGAGACTCCGTCTCAAAAAAAAAAAAAATGCACATAGCTATCAAGTGTGCTTTAGCTTGA  
AAAGGTGACCTTGCAACTTCATGTCAACTTCTGGCTCCTCAAACAGTAGGTTGGCAGTAAGGCAGGGTCCCATT  
CTCACTGAGAAGATTGTGAATATTTCCATATGGATTTTCTATTGTTACTCTGGTTCTTTGTTTTAAAAATAAAAT  
TCTGAATGTACACG

3792/6881  
**FIGURE 3494**

GGCCAAGGCAAGATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAGGTGGCAAGAAGGATGACAAGCTCTAA  
CAACTCAAGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTACAGTGGGGAAAAAGAAGAAGAAAAACAAAG  
GGACCAGATGCTGCCAGCAAAGTGGCACTGGTGACACCTCACACTCAGTGCCAGTTAAAAATTACTGAAGTTAGAG  
AGAATTAAAGACTATCTTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAAG  
CAAGAAGGGGAAAAGATCAAAGTGGATGATCTGAGGGGGACCCCAATGTCAGTAGGAATCTTGGAAGAGATCATT  
GATGACAATCATGCCATCGTGTCTACATCTGTGGGCTCAGAACACTACATCAGCATTCTTTTCATTTGCAGACAAG  
GATCTTCTGGAACCTGGCTGCTCGGTGAGGCTCAACCACAAGGTGCATACCATGATAGGGGTGCTGATGGATGAC  
ATGGATCCCTGGTCACAGTGATGAAGGTGGAAAAGGCCCCCCAAGAGACCTATGCAGATACTGGGGGGTTGGAC  
AACCAAATTCGGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCATCCTGAATATTATGAAGAGATGGGTATA  
AAGCCTCCAAGGGGGTCATTCTGTGGTCCACCTGGCACAGGTAAAACCTTGTTAGCCAAAGCAGTAGCAAACC  
AAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACCTTATTCAGAAGTACCTAGGTGATGGGCCCCAACTCG  
GACGGGAATTGTTTCGAGTTGCTGAAGAACGTGCACCGTCCATTGTGTTTATTGATGAAATTGACGCCATTGGGA  
CAAAAAGATATGACTCCAATTCTGGTGGTGAGAGAGAAATTCAGCGAACAAACGTTGGAACTGCTGAACCAGTTGG  
ATGGATTTGATTCTAGGGTAGATGTGAAAGCTATCATGGCCACAAACCAATAGAACTTTGGATCCAGCGCTTA  
TCAGACCAGGCCGATTGGCAGGAAGATTGAGTCCCCCTGCCTGATGAAAAGACGAAGAAGCCCATCTTTCAGA  
TTCACACAAGCAGGATGACGCTGGCTGATGATGTAACCCTGCACGACTTGATCATGGCTAAAGATGACCTCTCTG  
GTGCTGACATCAAGGCAGTCTGTACAGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGTAACAAATG  
AAGACTTCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAACAGGAAGACACCCCTGAGGGGCTGTATCTCTAGT  
GAACTACGGCTGCCATCAGGAAAATGGTTGGGTGATTCTCAGTCCCTGAAAGGGATGAGGCTGGGGGAGTTGCC  
CAGAGGAATCTCTGTTCCCATGATTTTTATTAGCAAAACATCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCC  
CACTGGGTGGCCTGTCTGTGTGGTCACTGTGCAGCAGTCTGCTTCCCAATAAAGCGCGCTCTTTCACAA

3793/6881

**FIGURE 3495**

GCAAAGTGGCACTGGTGACACCTCACACTCAGTGCCAGTTAAAATTACTGAAGTTAGAGAGAATTAAAGACTATC  
TTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAAGGGAAAAGAT  
CAAAGTGGATGATCTGAGGGGGACCCAATGTCAGTAGGAATCTTGGAAGAGATCATTGATGACAATCATGCCA  
TCGTGTCTACATCTGTGGGCTCAGAACACTACATCAGCATTCTTTCATTTGCAGACAAGGATCTTCTGGAACCTG  
GCTGCTCGGTCAGGCTCAACCACAAGGTGCATACCATGATAGGGGTGCTGATGGATGACATGGATCCCCTGGTCA  
CAGTGATGAAGATTCGGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCTCCTGAATATTATGAAGAGATGG  
GTATAAAGCCTCCAAGGGGGTCATTCTCTGTGGTCCACCTGGCACAGGTAAAACCTTGTTAGCCAAAGCAGTAGC  
AAACCAAACCTCAGCCACTTCTTGAGAGTGGTTGGCTCTGAACCTATTTCAGAAGTACCTAGGTGATGGGCCCAA  
ACTCGGACGGGAATTGTTTCGAGTTGCTGAAGAAC

3794/6881  
**FIGURE 3496**

CAAGAAATATGAGATAGAAGGGGAGGGGTAGGAGGAGAGGGAGGGTAGGAAGACAGTTTGCATTCTTGCAACA  
TTAAACCAAAGGGACTTGGAGTGCAGATGGCATCCTTCGGTTCTTCCAGACAAGCTGCAAGACGCTGACCATGGC  
CAAGATGGAGCTCTCGAAGGCCTTCTCTGGCCAGCGGACACTCCTATCTGCCATCCTCAGCATGCTATCACTCAG  
CTTCTCCACAACATCCCTGCTCAGCAACTACTGGTTTGTGGGCACACAGAAGGTGCCCAAGCCCCCTGTGCGAGAA  
AGGTCTGGCAGCCAAGTGCTTTGACATGCCAGTGTCCCTGGATGGAGATACCAACACATCCACCCAGGAGGTGGT  
ACAATACAACCTGGGAGACTGGGGATGACCGGTTCTCCTTCCGGAGCTTCCGGAGTGGCATGTGGCTATCCTGTGA  
GGAAACTGTGGAAGAACCAGGGGAGAGGTGCCGAAGTTTCATTGAACTTACACCACCAGCCAAGAGAGGTGAGAA  
AGGACTACTGGAATTTGCCACGTTGCAAGGCCCATGTCACCCCACTCTCCGATTGAGAGGGAAGCGGTTGATGGA  
GAAGGCTTCCCTCCCTCCCTCCCTTGGGGCTTTGTGGCAAAAATCCTATGGTTATCCCTGGGAACGCAGATCA  
CCTACATCGGACTTCAATTCATCAGCTTCCTCCTGCTACTAACAGACTTGCTACTCACTGGGAACCCCTGCCTGTG  
GGCTCAAACCTGAGCGCCTTTGCTGCTGTTTCTCTGTCCTGTCAGGTCTCCTGGGGATGGTGGCCACATGATGT  
ATTACAAGTCTTCCAAGCGACTGTCAACTTGGGTCCAGAAGACTGGAGACCACATGTTTGGAAATTATGGCTGGG  
CCTTCTACATGGCCTGGCTCTCCTTCACCTGCTGCATGGCGTCGGCTGTCACCACCTTCAACACGTACACCAGGA  
TGGTGCTGGAGTTCAAGTGCAAGCATAGTAAGAGCTTCAAGGAAAACCCGAAGTGCCTACCACATCACCATCAGT  
GTTTCCCTCGGCGGCTGTCAAGTGCAGCCCCACCGTGGGTCTTTGACCAGCTACCACCAGTATCATAATCAGC  
CCATCCACTCTGTCTCTGAGGGAGTCGACTTCTACTCCGAGCTGCGGAACAAGGGATTTCAAAGAGGGGCCAGCC  
AGGAGCTGAAAGAAGCAGTTAGGTCATCTGTAGAGGAAGAGCAGTGTTAGGAGTTAAGCGGGTTTGGGGAGTAGG  
CTTGAGCCCTACCTTACACGTCTGCTGATTATCAACATGTGCTTAAGCCAAAAAAAAAAAAAAAAAAAA

3795/6881

**FIGURE 3497**

MELSKAFSGQRTLLSAILSMLSLSFSTTSLLSNYWFVGTQKVPKPLCEKGLAAKCFDMPVSLDGDINTSTQEYVQ  
YNWETGDDRFSSFRSFRSGMWLSCEETVEEPGERCRSFIELTPPAKRGEKGLLEFATLQGPCHPTLRFGGKRLMEK  
ASLPSPPLGLCGKNPMVIPGNADHLHRTSIHQLPATNRLATHWEPCLWAQTERLCCCFLCPVRSPGDGGPHDVF  
TSLPDCQLGSRRLETTCLLWLGLLHGLALLHLLHGVGCHHLQHVVHVDGAGVQVQA



3796/6881  
**FIGURE 3498**

ATAACAGCATGAAGTGCCGTGGAAGTGGAAATAGGCGTGCTCTCCCTCGACCCTCCCCCTCCTTGTCCTCTGC  
TCACCCCTCGCTCGTTCCCTCCCTCCGGCGAGGGCCGCTTTATAACAAGTCTCAGAGTGCGAGGGCGGATAG  
CTGTCCAAGGTCTCCCCAGCACTGAGGAGCTCGCTGCTGCCCTCTGCGCGCGGGAAGCAGCACCAAGTTCAC  
GGCCAACGCCCTTGGCACTAGGGTCCAGAATGGCTACAACAGTCCCTGATGGTTGCCGCAATGGCCTGAAATCCAA  
GTACTACAGACTTTGTGATAAGGCTGAAGCTTGGGGCATCGTCTAGAAACGGTGCCACAGCCGGGGTTGTGAC  
CTCGGTGGCCTTCATGCTCACTCTCCGATCCTCGTCTGCAAGGTGCAGGACTCCAACAGGCGAAAAATGCTGCC  
TACTCAGTTTCTCTCTCTCTGGGTGTGTTGGGCATCTTTGGCCTCACCTTCGCCTTCATCATCGGACTGGACGG  
GAGCACAGGGCCACACGCTTCTTCTCTTTGGGATCCTCTTTTCCATCTGCTTCTCCTGCCTGCTGGCTCATGC  
TGTCAGTCTGACCAAGCTCGTCCGGGGGAGGAAGCCCTTTCCCTGTTGGTGATTCTGGGTCTGGCCGTGGGCCT  
CAGCCTAGTCCAGGATGTTATCGCTATTGAATATATTGCTCTGACCATGAATAGGACCAACGTCAATGTCTTTTC  
TGAGCTTTCCGCTCTCGTCGCAATGAAGACTTTGTCTCTGCTCACCTACGCTCCTCTTCTTGATGGCGCTGAC  
CTTCTCATGTCCTCTTACCTTCTGTGGTTCTTACGGGCTGGAAGAGACATGGGGCCACATCTACCTCAC  
GATGCTCCTCTCCATTGCCATCTGGGTGGCCTGGATCACCTGCTCATGCTTCTGACTTTGACCGCAGGTGGGA  
TGACACCATCCTCAGCTCCGCCTTGGCTGCCAATGGCTGGGTGTTCTGTTGGCTTATGTTAGTCCCAGTTTTG  
GCTGCTCACAAGCAACGAAACCCCATGGATTATCTGTTGAGGATGCTTCTGTAAACCTCAACTCGTGAAGAA  
GAGCTATGGTGTGGAGAACAGAGCCTACTCTCAAGAGGAAATCACTCAAGGTTTTGAAGAGACAGGGGACACGCT  
CTATGCCCCCTATTCCACACATTTTCAGCTGCAGAACCAGCCTCCCCAAAAGGAATTCTCCATCCCACGGGCCCCA  
CGCTTGGCCGAGCCCTTACAAAGACTATGAAGTAAAGAAAGAGGGCAGCTAACTCTGTCTGAAGAGTGGGACAA  
ATGCAGCCGGGCGGCAGATCTAGCGGGAGCTCAAAGGGATGTGGGCGAAATCTTGAGTCTTCTGAGAAAAGTGA  
CAAGACACTACGGGAACAGTTTGCCTCCCTCCCAGCCTCAACCACAATTCTTCCATGCTGGGGCTGATGTGGGCT  
AGTAAGACTCCAGTTCTTAGAGGCGCTGTAGTATTTTTTTTTTTTGTCTCATCCTTTGGATACTTCTTTTAAGT  
GGGAGTCTCAGGCAACTCAAGTTTAGACCTTACTCTTTTGTGTTGTTTTTGAAACAGGATCTTGCTCTGTCAC  
CCAGGCTTGAGTGCAGTGGTGCGATCACAGCCAGTGCAGCCTCGACCACCTGTGCTCAAGCAATCCTCCCATCT  
CCATCTCCCAAAGTGTGGGATGACAGGCGTGAGCCACAGCTCCCAGCCTAGGCCCTTAATCTTGCTGTTATTTT  
CCATGGACTAAAGGTCTGGTCATCTGAGCTCACGCTGGCTCACACAGCTCTAGGGGCTGCTCCTCTAACTCACA  
GTGGGTTTTGTGAGGCTCTGTGGCCAGAGCAGACCTGCATATCTGAGCAAAAATAGCAAAAGCCTCTCTCAGCC  
CACTGGCCTGAATCTACACTGGAAGCCAACTTGCTGGCACCCCGCTCCCCAACCTTCTTGCTGGGTAGGAGA  
GGCTAAAGATCACCTAAATTTACTCATCTCTCTAGTGTGCTTACATTGGGCCTCAGCAGCTCCCCAGCACCA  
ATTCACAGGTACCCCTCTCTTCTTGCACTGTCCCCAACTTGCTGTCAATTCCGAGATCTAATCTCCCCCTACG  
CTCTGCCAGGAATTTCTTCTCAGACCTCACTAGCACAAAGCCCGGTGCTCCTTGTCAGGAGAATTTGTAGATCATTC  
TCACCTCAAATTCCTGGGGCTGATACTTCTCTCATCTTGACCCCCAACCTCTGTAAATAGATTTACCGCATTTAC  
GGCTGCATTCTGTAAAGTGGGCATGGTCTCCTAATGGAGGAGTGTTCATTGTATAATAAGTTATTACCTGAGTAT  
GCAATAAAGATGTGGTGGCCACTCTTTCATGGTGGTGGCAGCAAAAAAAAAAAAAA

3797/6881

**FIGURE 3499**

MATTVPDGCNGLKSKYYRLCDKAEAWGIVLETVATAGVVTSVAFMLTLPILVCKVQDSNRRKMLPTQFLFLLGV  
LGIFGLTFAFIIGLDGSTGPTRFLLFGILFSICFSCLLAHAVSLTKLVRGRKPLSLLVILGLAVGFSLVQDVIAI  
EYIVLTMNRTNVNVFSELSAPRRNEDFVLLLTYYVLFMLALTFLMSSFTFCGSFTGWKRHGAHIYLTMLLSIAIWV  
AWITLLMLPDPDRRWDDTILSSALAANGWVFLLAYVSPEFWLLTKQRNPMDYVEDAFCKPQLVKKSYGVENRAY  
SQEITQGFEETGDTLYAPYSTHFQLQNQPPQKEFSIPRAHAWPSPYKDYEKKES

3798/6881  
**FIGURE 3500**

GGTACCTCGTGGAGAAGACGGGGGAGGGGAGCAGCGAGATTTCCTTGCGGAGCAATATTCCTAGGGTACAGACCT  
CGTAGCCCCGGGCCCCGCGACTCCGCCCCGGGAGCGGGCAGGGGCGGGGCGAGCGCTCCAGCTGGCGGGAAGGAGGA  
AGGGCCGGGCGCGGGCGCAGAGGCGGGCGCCTACCAGCCGGCAGCTCCGGAGCTGCCCGCGCCATGTCCGCGCAC  
ATCGGGGCACCGAGCTCGACCTTAGCTGGATCTCCAAAATACAAGTGAATCACC CGGCAGTTCTGAGGCGTGCGG  
AACAAATCCAGGCTCGCAGAACCGTGAAAAAGGAGTGGCAGGCTGCTTGGCTCCTGAAAGCTGTTACCTTTATAG  
ATCTTACTACACTTTTCAGGTGATGATACATCTTCCAACATTCAAAGGCTCTGTTATAAAGCCAAATACCCAATCC  
GGGAAGATCTCTTAAAAGCTTTAAATATGCATGATAAAGGCATTACTACAGCCGCCGTTTGTGTTTATCCCGCCC  
GGGTGTGTGATGCTGTAAAAGCACTCAAGGCTGCAGGCTGTAATATCCCTGTGGCATCAGTGGCCGCTGGATTTT  
CAGCTGGACAGACTCATTGAAGACACGATTAGAAGAGATCAGATTGGCTGTGGAAGATGGAGCTACAGAAATCG  
ACGTGGTAATTAACAGAAGCTTGGTGCTGACAGGCCAGTGGGAAGCCCTGTATGATGAGATTCTGCAGTTTCGCA  
AGGCCTGTGGGGAGGCTCATCTTAAACTATATTAGCGACAGGAGAACTTGGAACCTTACTAATGTCTATAAAG  
CCAGTATGATAGCAATGATGGCAGGATCAGATTTTATTAAGACCTCTACTGGAAAAGAAACAGTAAATGCCACCT  
TCCCGGTAGCTATAGTAATGCTGCGGGCCATTAGAGATTTCTTCTGGAAGCTGGAACAAGATAGGGTTTAAAC  
CAGCAGGAGGCATCCGCAGTGCAAAGGATTCCCTTGCTTGGCTCTCTCTTGTAAAGGAGGAGCTTGGAGATGAGT  
GGCTGAAGCCAGAACCTTTTGAATAGGTGCCAGTACTCTGCTCTCGGACATTGAGAGGCAGATTTACCATCATG  
TGACTGGAAGATATGCAGCTTATCATGATCTTCCAATGTCTTAAATCAGTCACCAGTTCCAGAAAAGTTCTTTAC  
GACAATGTTTAAAAATTATTTTCTACGTAATTGCTAAAATTATTTAATTAAAAAATTGGGCAGTAGGTAACCTGG  
CATTCTCTCTTTAAAATTCTACCGAACTTAATGGAATGGAAAAAGCAAACCTCATCCACATGTGGTACTCATT  
CAGGCACATCTGAAATGATCTTAATTACTAGAAGATCTGCACTATTAACCTTGTGAAGAGTTTCTCCTAAAACT  
TTAAGTAAATGTTAATGGTAGCTTTGATAACATCAAATCTAAGGGAGAAAAACAATATTAAACCGCCCAAG  
CAGTGTGCCCTAGCAGAGGAAAAATGCAACATCTCGCAAGCGCTGCTGTAACGACTTCAGGAGTCACTGATTACGC  
ACTAATTTCTGCTGTGAAAACCTCATCTTTCAATTTTGCCGTGGATAGGCGCTTTTATTAATTGTTGCCTAATG  
AAATTTCTGACATTGTCATATACAACGATGAATATCATTAAAAATTTTAA

3799/6881  
**FIGURE 3501**

TGTGGACGCTGTGAATCGTGGCTGGCCCGGTTCTCCGCTTCTCCCCATCCCCTACTTTCCTCCCTCCCTCCCTTT  
CCCTCCCTCGTCGACTGTTTCTTGCTGGTCGCAGACTCCCTGACCCCTCCCTCACCCCTCCCTAACCTCGGTGCC  
ACCGGATTGCCCTTCTTTTCTGTGCCCAGCCCAGCCCTAGTGTGAGGGCGGGGGCTGGAGCAGCCCAGGCA  
CTGCAGCAGAAGAGAGAAAAGACAACGACGACCCTCAGCTCGCCAGTCCGGTCGCTGGCTTCGCCGCCGCCATGG  
CAATGAGACAGACGCCGCTCACCTGCTCTGGCCACACGCGACCCGTGGTTGATTGCGCTTCAGTGGCATCACGC  
CTTATGGGTATTTCTTAATCAGCGCTTGCAAAGATGGTAAACCTATGCTACGCCAGGGAGATACAGGAGACTGGA  
TTGGAACATTTTGGGTCATAAAGGTGCTGTTTGGGGTGCAACACTGAATAAGGATGCCACCAAAGCAGTACAG  
CAGCTGCAGATTTACAGCCAAAGTGTGGGATGCTGTCTCAGGAGATGAATTGATGACCCTGGCTCATAACACA  
TTGTCAAGACTGTGGATTTTACGCAGGATAGTAATTATTTGTTAACCGGGGGACAGGATAAACTGTTACGCATAT  
ATGACTTGAACAAACCTGAAGCAGAACCTAAGGAAATTAGTGGTCATACTTCTGGTATAAAAAAGCTCTGTGGT  
GCAGTGAGGATAAACAGATTCTTTCTGCTGATGACAAAACCTGTTTCGACTTTGGGATCATGCTACTATGACAGAAG  
TGAAATCTCTAAATTTTAATATGTCTGTTAGTAGTATGGAATATATTCCTGAGGGAGAGATTTTGGTTATAACTT  
ATGGACGATCTATTGCTTTTTCATAGTGCAGTAAGTTTGGACCCAATTAAATCCTTTGAAGCTCCTGCAACCATCA  
ATTCTGCATCTCTTCATCCTGAGAAAGAATTTCTTGTGTCAGGCGGTGAAGATTTTAACTTTATAAGTATGATT  
ATAATAGTGGAGAAGAATTAGAATCCTACAAGGGACACTTTGGTCCTATTCAGTGTGTGAGATTTAGTCCTGATG  
GAGAACCTCTATGCCAGTGGTTCAGAAGATGGAACATTGAGACTATGGCAAACCTGTGGTAGGAAAAACGTATGGCC  
TTTGAAATGTGTGCTTCTTGAAGAAGATAGTGGTGAGCTGGCAAAGCCAAAGATTGGTTTTCCAGAGACAACAG  
AAGAGGAGCTAGAAGAAATTGCTTCAGAGAATTCAGAGTGCATCTTTCTTCAGCTCCTGATGTTAAGGCCTGAG  
CGTCAATCATATGTTGCAGTTAGTATACAACCTGACTAAAACAAGCAAGCAGAGAAAAGCATCAGCCTTCCAGAGT  
TACTGTCTGCTTAAGGCAGAAACAGCAGTAAATAATGAGGAAAATGAATTAGCTCCAGTGTGGAACAACCTAACT  
AACTTGGTGTACCTGTAAAGTAAAACCTCAAGTGTGAGATGAAGGGAGGTGGAGTTATCCTCTTATAGTACAGTG  
GCCTGTTATCTTTTAAATGAATATATACAAGCCAACATCCAATTTCTATTATTACAATTAGGGTTCTTGTAGCTG  
TTTATGTTAATATGGAGAAGAAAACCTATATTGGCTGATTTTTTCTGATCTTAAAGCAGAATGCCTTTTCTTTT  
TTGCTTCAGTTGTAAAGAAGAGGGAATACATGATAAAGTAACTGGTTTGATTTCTCGTTTCATTGTACACTGCCTC  
TGAACATCTAATTGTTTTTAGTTGTCTAAATAAATGCCTCTAAACAAAAAAAAAAAAAAAAAAAAA

3800/6881

**FIGURE 3502**

MAMRQTPLTCSGHTRPVVDLAFSGITPYGYFLISACKDGKPMRLRQDGTGDWIGTFLGHKGAVWGATLNKDATKAA  
TAAADFTAKVWDVAVSGDELMTLAHKHIVKTVDFQTQDSNYLLTGGQDKLLRIYDLNKPEAEPKEISGHTSGIKKAL  
WCSEDKQILSADDKTVRLWDHATMTEVKSLNFMNSVSSMEYIPEGEILVITYGRSIAFHSAVSLDPIKSFEAPAT  
INSASLHPEKEFLVAGGEDFKLYKYDYNSGEELESYKGHFGPIHCVRFPDGLYASGSEDGTLRLWQTVVGKTY  
GLWKCVLPEEDSGELAKPKIGFPETTEEELEEIASENSECIFPSAPDVKA

3801/6881  
**FIGURE 3503**

CCAGGGTTTCCTCTTCAAGTAGGTCTAAAACATTTTTTTTTCTCATTGACTTCCTTCCTGTTCTAACTGCCAGTA  
CTCAGAAGTCAGAGTTGAGAGACAGAGGCACCCCGACAGAGACGTGAAGCACTGAATAAATAGATCAGAATGAC  
TGAAAAAGCCCCAGAGCCACATGTGGAGGAGGATGATGATGATGAGCTGGACAGCAAGCTCAATTATAAGCCTCC  
ACCACAGAAGTCCCTGAAAGAGCTGCAGGAAATGGACAAAGATGATGAGAGTCTAATTAAGTACAAGAAAACGCT  
GCTGGGAGATGGTCTGTGGTGACAGATCCGAAAGCCCCCAATGTCGTTGTCACCCGGCTCACCTGGTTTGTGA  
GAGTGCCCCGGGACCAATCACCATGGACCTTACTGGAGATCTGGAAGCCCTCAAAAAGGAAACCATTGTGTTAAA  
GGAAGGTTCTGAATATAGAGTCAAAATTCACITCAAAGTGAACAGGGATATTGTGTCAGGCCTGAAATACGTTCA  
GCACACCTACAGGACTGGGGTGAAAGTGGATAAAGCAACATTTATGGTTGGCAGCTATGGACCTCGGCCTGAGGA  
GTATGAGTTCTCACTCCAGTTGAGGAGGCTCCCAAGGGCATGCTGGCGCGAGGCACGTACCACAACAAGTCCTT  
CTTCACCGACGATGACAAGCAAGACCACCTCAGCTGGGAGTGGAACCTGTGCGATTAAAGAAGGAGTGGACAGAATG  
AATGCATCCACCCCTTTCCCCACCCTTGCCACCTGGAAGAATTCCTCTCAGGCGTGTTCAGCACCCCTGTCCCTCCT  
CCCTGTCCACAGCTGGGTCCCTCTTCAACACIGCCACATTTCCCTTATTGATGCATCTTTTCCCACCCTGTCACTC  
AACGTGGTCCCTAGAACAAGAGGCTTAAAACCGGGCTTTACCCAACTGCTCCCTCTGATCCTCCATCAGGGCC  
AGATCTTCCACGTCTCCATCTCAGTACACAATCATTTAATATTTCCCTGTCTTACCCCTATTCAAGCAACTAGAG  
GCCAGAAAATGGGCAAATTATCACTAACAGGTCTTTGACTCAGGTTCCAGTAGTTTATTCTAATGCCTAGATTCT  
TTTGTTGGTTGTGCTGGCCCAATGAGTCCCTAGTCACATCCCTGCCAGAGGGAGTTCTTCTTTTGTGAGAGACA  
CTGTAAACGACACAAGAGAACAAGAATAAAACAATAACTGTG

3802/6881  
**FIGURE 3504A**

ATGGCCGACCTGGAGGAGCTCTCCCGCCTGAGCCCTCTGCCCCCGGCAGCCCGGGTTCGGCGGCGCGGGGCGCG  
GCTGAGCCCCCGAGGAGGAGGAGGAAGAGGAGGAGGAGGAAGAGGAGGCGGAGGCCGAGGCGGTGGCGGCGCTG  
CTGCTGAACGGCGGCAGCGGTGGGGGCGGCGGAGGCGGCGGAGGAGTGGGGGCGGCGAGGCAGAGACGATG  
TCGGAGCCGAGCCCCGAGAGGCCAGCCAGGCCGGGAGGACGAAGACGAGGAGGAGGACGACGAGGAGGAGGAA  
GATGAGAGCAGCAGCAGCGCGGGGGTGAGGAGGAGAGTAGCGCCGAGAGCCTGGTGGGCAGCAGCGCGGGAGC  
AGCAGCGACGAGACCCGCTCGTTGAGCCCCGGCGCCAGCAGCAGCAGCGGGGATGGGGACGGCAAGGAGGGC  
CTGGAGGAGCCCAAGGGACCGCGGGGAGCCAGGGCGGCGGGGGGCGGCAGCAGTAGCAGCAGCGTAGTCTCC  
AGCGGCGGCGACGAGGGCTACGGGACTGGGGGAGGCGGAAGCAGCGCGACCTCCGGGGCGGCGGGGCGAGCTTG  
GAGATGTCGTCGGATGGGGAACCCCTGAGCCGATGACTCGGAGGACAGCATAAGCAGTACTATAATGGATGTA  
GACAGCACAATTTCCAGTGGGCGTTCAACTCCAGCAATGATGAATGGACAAGGAAGCACTACTTCTTCAAGCAAA  
AATATTGCCTATAATTGTTGTTGGGACCAAGTGCAGGCTTGCTTCAACTCTAGCCAGATCTGGCAGATCACATC  
CGTTCATACATGATGATGGTCAGCGAGGAGGGGTATTTGTTTGCTTATGGAAGGTTGTAAGTATATAACACT  
CCATCTACCAAGTCAAAGTTGGTTACAAAGGCATATGCTGACACACAGTGGAGACAAACCTTTCAAGTGTGTTGTT  
GGTGGCTGCAATGCCAGCTTTGCTTCTCAGGGAGGGCTAGCTCGTCATGTACCCACACACTTCAGTCAGCAGAAC  
TCCTCAAAAGTTTCTAGCCAGCCAAAGGCCAAAGAAGATCTCCTTCTAAAGCTGGAATGAACAAAAGGAGGAAA  
TTAAAGAACAAAAGACGACGCTCATTACCACGGCCACATGATTTCTTCGATGCACAAACACTGGATGCGATAAGA  
CATCGAGCCATATGCTTTAACCTCTCAGCTCATATAGAAAGTTTAGGGAAGGGACACAGTGTGTTTTTCATAGT  
ACTGTAATAGCTAAGAGAAAAGAAGATTCTGGGAAGATCAAACTTTTGCTTCATTGGATGCCTGAAGACATTCTG  
CCTGATGTGTGGGTGAATGAAAGTGAACGACATCAGTTAAAAACTAAAGTAGTTCAITTTATCAAGCTACCCAAA  
GATACTGCCTTGCTTTTGACCCAAACATATACAGAACAATGCCGAGAGAGGTTGAAGAGGTAAAAAATAAAT  
AAATACATAAAAAGCAAACAAGCGGGGACACCTGCAGTCTTAGTCACTGACAATGGGTTTAGGGAAAGTTGCACA  
TTAGAGTCAACCCCTTCTTTTTTTTTTTTTTTTTTTTTTAAATCCAGTATTTAGGATAATATTTATGCTTAGTGTA  
ACATTCTGTGAATGAAGTAGACTCTTCGGTGAATATATTAATATATTACTGTATATCCACATTTTCATGGAATG  
GTACTGTGGGAGACTGAGCAAACACTCTTTTGGAACCTTAGTAGAACAGCTTCTTAAAGGCTTTGCATGCTTGCT  
GCTTTAAGCTGCTTTTTTTTTTCTTTCTTCCCTTTAGTGATTTTCAGTAGTTTATATTGGAAAGAAAAACAATTA  
CAACATGTGCCCTTACAAATACCAAAGCACTGTAAGGATATTTGTCTTGACAGTGTATTATGATTGTAAGTCAT  
ATTAGGAAATATTTAGACAATGAAAATTATCAAGAGATAATTTACCTTTCAATTATGATAAATAGATGTGATTGG  
TTGCCATTTGTGTTCTTTTGCAAGTCTGATAAGAAAAGTGTTCATTTGTATTTAAGCAAACAGTGAACGACG  
TTTGCAATCACTAAAAATTGCTCTATCGAATTAGGGCTGAAAATTACTGTAAAGAGTGTGTCAGTATGTCGG  
TGGCTCCCTTTTCAGGACTAGGGCTTTCTCATGGAGTACAGTATGTTAATATTTACCTATATACTAATCTGTTA  
ACGGTTTTTTGAAAAACCTTTCAAATTATTTGAATAATCTTCATATTTTCAATTAACCTATATGACTCTAATTTTT  
TTTCTGAGGAAATCATTGGTTTTGAGTTGTTTTTCTTAATGTAAGAAAATTGTATTTTTTTTACAAGTATC  
TTCAAACCTGAATCTTTATGCACCAAAGTTGGTCTTGAAAAGGAAAATAAAATCACTTTCTTGCTTGGAAGCAA  
GAAGCCATATCGATTTTTTTTAACTTACAGAAATGGAATATGTGTAACCTGTTAGTATTGTATTAACAAATGT  
TGCATAGAGATAATAGAACATTGCTTGTAATAATTCAGCAGATTGTAATATATTTTTATATTTGAAATGTAC  
TGATAGATGTTTTCTAGAGGCATGAAAGTTAAATGTATATATTATGGTAGAAATAATATTGAAGGATATTGTACTT  
CACTAGTGCTGCCAGAGGAATTGTTAATAAAAGCACCTTCTTTAACAATAAATGTCTTTCACAGACTTAAGGGAC  
TATGTACTACGTGTTAATATCTCTAAGAACAAAACACATTGAACATCCTTCCAGAAAGTCTTGAGGGAGGACCTA  
TACCCATAATAGAATTATGGCACTCATTCTGACAGTGATCAAGAAATCAGTTATTTCCCTACTGTTGGAAGGAC  
ATTGTAAAGTATGTGGTTATATGCAGTGAACTGCAGAAAATACCTCGGTTGAGGAGTTTCACTTTACTACAG  
TGATATAAAAACCAGCAGTTTTTACACTAAATTTTTTAAAGAAATATTAGACAAAATATAGAATTAAACCTTT  
GGTTCCAAATGGGAAAGGTTCCACGATACATAAATCATTCTCATTGCTTTAAAAAATTAAAAGTGTAAGAA  
TTATGAGAGACTTTATTCGTTAACAATGGGGGTAAAGAGCTATATACATGAAAATGAGTCTTATAAAATTAAGTG  
AAGTGCAAATAAAAGCACTGCTACTATAAGACATTCTGGAATGGTTGTTAATAAGGGTATTATCCATTTGATCT  
ATAGCAATGTGATTTTATTTTTTAAAGAAAAGCAGTGTTTCTTTTTTGTGTTTCTTTTGCTTAAGCAC  
TTCATCAATTGCTTTATTCTGTATCTGCGAAGTAATCTGCAATCTTTTTGTTCTTTTTTAAATTTGATTTGTTA  
TAAATTTGCCAAATAGAAGTGTTCAGATACATAGTTGTACCTGTATTTTTATTTTATGCTCATGTTCTTGT  
AAGTCATTCTTAATTGACCAATGATTGTAGACCTTGCTTGAGTATTTTTTCTAATAAAACAAAGCAAATCACATT

3803/6881

**FIGURE 3504B**

TAGCTTCAAATTGTAACAATTCAATTGAATTTTAAAATGACACCTGAAAAGATACATCTGATATTTTCTATATAG  
AGCACAGTAAATAAGTTTTTTCATTGTGTAGAAATACTTAGATGTCAAAACCAGATTTCGTGATCCTTGATTAAC  
TTCTGAGTACTCAATCAATCATAATCCTTTTGCTGCTTATCTGATGTTGGTTTGATACTGTTAACACACCAAAAA  
GAATATGGAATTGAAATGAGCTAGCTTTATAACTTGTATGTATACATATATACATAACATCCAATTATGACTG  
GGTAATAAGTGTGAAAATTTTAATTTGTGGTTTTTCATTATTAATGTCTGCCCATCTGTATTGTTGCTCCTACCT  
TCAAATATGACACCTGAAATAATAAGTCTGTTGTCCAGAATT



3804/6881  
**FIGURE 3505**

MSSDGEPLSRMDESDSISSTIMDVDSTISSGRSTPAMMNGQGSTTSSSKNIAYNCCWDQCQACFNSSPDLADHIR .  
SIHVDGQRRGGVFVCLWKGCKVYNTPTSTQSWLQRHMLTHSGDKPFKCVVGGCNASFASQGGLARHVPTHFSSQQNS  
SKVSSQPKAKEESP SKAGMNKRRKLKNKRRRSLPRPHDFFDAQTLDAIRHRAICFNLSAHIESLGKGHSVVFHST  
VIAKRKEDSGKIKLLHWMPELILPDVWVNESERHQLKTKVVHLSKLPKDTALLDPNIYRTMPQKRLKR

3805/6881  
**FIGURE 3506A**

CAAAAGAAAGGAAGAAAGTCACAAAGGGCTGTCTGAGGCACATGATTGTGAAGAGTTAAAGGGAAAAATCCATTCT  
TCTGCTTTGTGAGAGCTCTCAAGCTAAAGTAAATGAGCCTTTAGAAGCCAAACATGCAGCTAACAAAGGTATGTA  
TCCATGTCTGTGGACACTAGTTGAGATTTTGGTCCAGGAAAAGCTGAGGTTTGGTTGGGGGAGGTGAAGCGAGG  
AGGCCAAGAGCACCACCTGGCTGCACCCCGTCACCGGCGAGGCGGTGGTCACCGGACACCGGCGGCAGAGCACAG  
CCTAGACGACCCTCGCGACCCTAGAGTGGCGACGCTCCCTCCCTGAAACCTGGAGTCCTGAGTTTTCTCTCCGC  
GGCCGCTACTCACTCCCGGTGACCCCGAGCTGCCGTCTTGCCCCCAGCAATCTTCAGGCAGTCCTTACCCACT  
CCCCTCCCTGCAGCCCCGACCCCGATCGCCCGCCGGGATAACCGTGGCAGTTGGCTTCTAAGAGGAATTATCCT  
AGGAGAACAGACCACAGTTTTAGACACTTATAAACTTCTGCTTATATCATGCTTTCCCATGTGGTCCTGGTTGA  
TGTATCAGATGGAAGGCAGATACGTTTAAAGTCATGAGCGAGATCCACCCATCCTCATGTATCAGTTACAAATGCA  
CTGTCTTACCTGCGTTAGGACAAATGCACTAAAAGTGTATAAAGTCTTCAGAGGATATTAGTTGTCATAGAAGT  
ACTTTTCACTCCGCTTTCCCAAAGGGAAATACATGATTGAGAGCAAAATCATATAAATGGGTACACATCCATAATGA  
AAGGAAAGTGACCTGCAACATCCAGTACAGGACAACCATCACAGGACAATTGTATTTTTGTAGTGAATGAACA  
GACTGTTGCAACCATGACATCTGAAGAAAAGGAACGGCCAATAAGTATGATAAATGAAGCTTCTAACTATAA  
CGTGACTTCAGATTATGCAGTGCATCCAATGAGCCCTGTAGGCAGAACTTCACGAGCTTCAAAAAAGTTTCATAA  
TTTTGGAAAGAGGTCAAATTCAATTAAAAGGAATCCTAATGCACCGGTTGTGACAGGAGGTTGGCTTTATAACA  
GGACAGTACTGGCATGAAATTGTGGAAGAAACGCTGGTTTGTGCTTTCTGACCTTTGCCTCTTTTATTATAGAGA  
TGAGAAAGAAGAGGGTATCCTGGGAAGCATACTGTTACCTAGTTTTTTCAGATAGCTTTGCTTACCTCTGAAGATCA  
CATTAAATCGCAAATATGCTTTTAAAGGCAGCCCATCCAAACATGCGGACCTATTATTTCTGCACTGATACAGGAAA  
GGAAATGGAGTTGTGGATGAAAGCCATGTTAGATGCTGCCCTAGTACAGACAGAACCTGTGAAAAGAGTGGACAA  
GATTACATCTGAAAATGCACCAACTAAAGAAACCAATAACATTCCCAACCATAGAGTGCTAATTAAACCAGAGAT  
CCAAACAATCAAAAAACAAGGAAATGAGCAAAATTAAGAAAAAAGGCATTAGAAGCTGAAAAATATGGATT  
TCAGAAAGGATGGTCAAGATAGACCCTTAACAAAAATTAATAGTGTAAAGCTGAATTCTCTGCCATCTGAATATGA  
GAGTGGGTCAGCATGCCCTGCTCAGACTGTGCACTACAGACCAATCAACTTGAGCAGTTCAGAGAACAAAATAGT  
CAATGTTAGCCTGGCAGATCTTAGAGGTGGAAATCGCCCCAATACAGGGCCCTTATACACAGAGGCCGATCGAGT  
CATACAGAGAACAATTCATGCAGCAGTTGGAACAGTGGATTAAATCCAGAAGGGGAGGGGTCATGAAGAAGA  
AACCAGGGGAAATATGCCAAGTCACAGAGCCAGATTATGGCCCGCTACCCTGAAGGTTATAGAACACTCCCAAG  
AAACAGCAAGACAAGGCCGTGAAAGTATCTGCAGTGTAAACCCCTCCACTCATGACAAGACATTAGGACCCGGAGC  
GGAGGAGAAACGGAGGTCCATGAGAGATGACACAATGTGGCAGCTCTACGAATGGCAGCAGCGTCAGTTTTATAA  
CAAACAGAGCACCCTCCCTCGACACAGTACTTTGAGTAGTCCCAAAACCATGGTAAATATTTCTGACCAGACAAT  
GCACTCTATTCCACATCACCTTCCACGGGTCAATAGCTGCTTATCAGGGATACTCCCTCAACGAACTTACAG  
ATCGGAAGTGTCTTCACCAATTGAGAGAGGAGATGTGACAATAGACCGCAGACACAGGGCCCATCACCTAAGCC  
AGAGGAGCTTACGCTGTGCTAATAAAGCTGAGACGGCAGCAAGCCGAACAGTAGTATCCGGGAGCATACGTT  
AGCACAGCTCATGCAGCTAAAGCTTGAGGCCACAGCCCAAGGTGGGAAGCCCTCCTGTGTCTCCCGTGGCA  
TCTGACCTCTGACACGTTGATGAATGATGATGAACTGCTGAAAAGAGATGGAACCTGCAATTGCAGTGATCATAT  
TAGCATGCAAGTAATTAACAAGTTGCACCTGGTGAGTAGGAAGGCAGGCAGCCAGAGGCTCCAGAGCCATCAGAA  
GGGCTGTGAGGGCACAAGACTGCCAAGAAAGAAAGGAAAGTACTGTCTACTGGAAGAATCTGTGCAGGCTCCATC  
ACAGGCAGCTGCAGCTCTGTATGAGGGCTCTGGGGGAGCTGGGAACCTGTGCTTCTATGTGGGAACATGCTCCA  
CTGTTTCCAGCTTTGTATAGAAATTTCTAATCATATAAATCTCAGTATTCTTGGACATCAAGGAAGTCTTATATT  
TTAAGCAACCCTGTCTGTACCATCTTCCCAACAACCCACCACCATCTGTTTGTATGCCTACACAGAAGATAT  
AAGCCAGTGGATCCTACATTTTTTTCAAGTATTTGCTGAAATACAAAGATTTATCAAAATTGCTAAGAAGCAGGG  
CTCATTCAGGCTCGAGGACGCTCTTGATGTGAATTAACCCACAGGAGACTGATGCACAAAACCAGAATAGAGC  
TTTATTTTACAATAAGAATTGTATAACTGCCGAGAGGTGAGAGAAGGACAGTGGGAAAATCACATTCTCTGTCTCA  
AAGGCAGACTCTCCAGAAAGCCAGTTTACCAGGAACTGAGGGGATAACGAGAACATACGGAGGCAGCAGAGCGT  
TGGCACCCTACTGATGATGCTACCTATTGCACATCACCTTCACTGGGTACTCAGTCAGTAGTACCATGTGCTAT  
CTACATAGCTATCTCTCAGGTTCTCTTTGCATTCTCATCCGTACTGCTGATTACATGGGCCCCAAGTGGACATA  
CATGTACATCGGGTACGAGCATCGATCCGTCACTGGCTGCCCTTGGAGCTGGCTTCTCTGACAAGACTCTCTGC  
TCACACTGTACCATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTATGCAACTTTGGTCAGCAGAA  
ACACAATACGAGCCTCTGGCTAGCTAAGGCACTCTATTCTGAAAGTACGGAAAACATGCACGGTCAGATTTTGGC

3806/6881

**FIGURE 3506B**

AAATTTTAAAGCCATGGATTCTGATTGGTTTGCAGAAACTACATGGGTAGAAAAACCAAGAAGTTTAATAACTG  
GGGTGGATCTCTGTCCCTGGGACACCCATTTGGAGCCACTGGCTGCAGGTTGGTCATGGCTGCTGCAACAGATTA  
CGGAAAGAAGGAGGCCAAGGAAGTCTCCACGGTCCCTCATTACATCTTCACCATTCTCAACACCCCTCCAGGGCGT  
CTTCATCCTATTGTTGGTTGCCTCATGGACAGGAAGATACAAGAAGCTTTGCGCAAACGCTTCTGCCGCGCCCA  
AGCCCCCAGCTCCACCATCTCCCTGACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGC  
CAGTGCGGTTATGAAGCCGGACGTTATTTTGGAGGTAAAGTAAATGTTCAAACAAATCATCTCTGA

3807/6881  
**FIGURE 3507**

CTCTTTTTCCAGCTGGAACCATGAGAGTGTGTAGAGAAGAAGGTTCTTGCTGTGCCAGAAACCCTTAAGAAAA  
AGCGAAGGAATTTTGCAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAGACGCTTCGAAAGACAA  
GGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAGGAATACAGGCAGATGTACAGAACTGAAATTCGAA  
AGGCGAGGATGGCAAGAAAAGCTGGCAATTTCTATGTACCTGCAGAACCCAAATTGGCATTGTGTCGTCAGAAATCA  
GAGGTGTCAATGGCGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTCAATGGCA  
CCTTTGTGAAGCTCGACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACCCCA  
ATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAATGAATAAGAAGCGAATTGCTTTGACAG  
ATAACACTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCATGGAGGATCTGATTCATGAGATCTATA  
CTGTTGGAAAAGGCTTCAAAGAGGCAAATAACTTCCTGTGGGCCTTCAAATTGTCTTCTCCACGAGGTGGAATGA  
AGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGGTCAACAGGCTTATTAGAA  
GAATGAACTAAGGTGTCTACCATGATTATTTTTCTAAGCTGGTTCGGTTAATAAACAGTACCTGCTCTCAAA

3808/6881  
**FIGURE 3508**

MECVEEKKVLAVPETLKKKRRNFAELKIKRLRKKFAQKTLRKTRRKLIEKAKHYHKEYRQMYRTEIRKARMARK  
AGNFYVPAEPKLAFFVVRIRGVNGVSPKVRKVLQLRLRQIFNGTFVKLDKASINMLRIVEPYIAWGYPNLKSUNE  
LIYKRGYKMNKKRIALTDNTLIARSLGKYGIICMEDLIHEIYTVGKGFKEANNFLWAFKLSSPRGGMKKKTTHF  
VEGGDAGNREDQVNRLIRRMN

3809/6881  
**FIGURE 3509**

GATCCCAGAGGAGGAAGTCCAGAGACAGAGCACCATGACTTCTGAGAAAGGAGAAGAATCGAACCCCTGGGAGTTT  
GACGTCTTCTATGACCCAGAGAACTTCGTAAAGAGGCCTGTCTGCTCTACGAAATCAAGTGGGGCATGAGCCGG  
AAGATCTGGCGAAGCTCAGGCAAAAACACCACCAATCACGTGGAAGTTAATTTATAAAAAAATTTACGTCAGAA  
AGAGATTTTCACCCATCCATCAGCTGCTCCATCACCTGGTTCCTTGTCCTGGAGTCCCTGCTGGGAATGCTCCCAG  
GCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGATCTACGTAGCTCGGCTTTTTTGGCACATG  
GATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGTAACATTTCAGATTATGAGAGCATCAGAG  
TATTATCACTGCTGGAGGAATTTTGTCAACTACCCACCTGGGGATGAAGCTCACTGGCCACAATACCCACCTCTG  
TGGATGATGTTGTACGCACTGGAGCTGCACTGCATAATTCTAAGTCTTCCACCCTGTTTAAAGATTTCAAGAAGA  
TGGCAAAATCATCTTACATTTTTTCAGACTTCATCTTCAAACCTGCCATTACCAAACGATTCCGCCACACATCCTT  
TTAGCTACAGGGCTGATACATCCTTCTGTGGCTTGGAGATGAATAGGATGATTCCGTGTGTGTACTGATTCAAGA  
ACAAGCAATGATGACCCACTAAAGAGTGAATGCCATTTAGAATCTAGAAATGTTTACAAGGTACCCCAAACTCT  
GTAGCTTAAACCAACAATAAATATGTATTACCTCTGGC

3810/6881

**FIGURE 3510**

MTSEKGEEENPGSLTSSMTPENFVKRPVCSTKSSGA

3811/6881  
**FIGURE 3511**

GATCCCAGAGGAGGAAGTCCAGAGACAGAGCACCATGACTTCTGAGAAAGGTCCTTCAACCGGTGACCCCACTCT  
GAGGAGAAGAATCGAACCCCTGGGAGTTTGACGTCTTCTATGACCCAGAGAACTTCGTAAAGAGGCCCTGTCTGCT  
CTACGAAATCAAGTGGGGCATGAGCCGGAAGATCTGGCGAAGCTCAGGCAAAAACACCACCAATCACGTGGAAGT  
TAATTTTATAAAAAAATTTACGTCAGAAAGAGATTTTCACCCATCCATCAGCTGCTCCATCACCTGGTTCTTGTC  
CTGGAGTCCCTGCTGGGAATGCTCCCAGGCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGAT  
CTACGTAGCTCGGCTTTTTTGGCACATGGATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGT  
AACTATTCAGATTATGAGAGCATCAGAGTATTATCACTGCTGGAGGAATTTTGTCAACTACCCACCTGGGGATGA  
AGCTCACTGGCCACAATACCCACCTCTGTGGATGATGTTGTACGCACTGGAGCTGCACTGCATAATTCTAAGTCT  
TCCACCCTGTTTAAAGATTTCAAGAAGATGGCAAAATCATCTTACATTTTTTCAGACTTCATCTTCAAACTGCCA  
TTACCAAACGATTCCGCCACACATCCTTTTAGCTACAGGGCTGATACATCCTTCTGTGGCTTGGAGATTGAATAGG  
ATGATTCCGTGTGTGTACTGATTCAAGAACAAGCAATGATGACCCACTAAAGAGTGAATGCCATTTAGAATCTAG  
AAATGTTCAAGGTACCCCAAACTCTGTAGCTTAAACCAACAATAAATATGTATTACCTCTGGC



3812/6881  
**FIGURE 3512**

MTSEKGPSTGDPTLRRRIEPWEFDVFDYDPRELKKEACLLYEIKWGMSRKIWRSSGKNTTNHVEVNFIIKFTSERD  
FHPSISCSITWFLSWSPCWECSQAIREFLSRHPGVTLVIYVARLFWHMDQQNRQGLRDLVNSGVTIQIMRASEYY  
HCWRNFVNYPGDEAHWPQYPPLWMMLYALELHCCIILSLPPCLKISRRWQNHLTFFRLHLQCHYQTIPPHILLA  
TGLIHPSVAWR

3813/6881

**FIGURE 3513**

CCCGGATGTGGAGAAGCTGGGGAGAAGGCGTGGGAGGAAGATGGACTCGGTGGAGAAGGGGGCCGCCACCTCCGT  
CTCCAACCCGCGGGGGCGACCGTCCCGGGGCCGGCCGCCGAAGCTGCAGCGCAACTCTCGCGGGCGGCCAGGGCCG  
AGGTGTGGAGAAGCCCCCGCACCTGGCAGCCCTAATTCTGGCCCGGGAGGCAGCAAAGGCATCCCCCTGAAGAA  
CATTAAGCACCTGGCGGGGGTCCCGCTCATTGGCTGGGTCTCGCTGCGGCCCTGGATTGAGGGGCCTTCCAGAG  
TGTATGGGTTTCGACAGACCATGATGAAATTGAGAATGTGGCCAAACAATTTGGTGCACAAGTTTCATCGAAGAAG  
TTCTGAAGTTTCAAAGACAGCTCTACCTCACTAGATGCCATCATAGAATTTCTTAATTATCATAATGAGGTTGA  
CATTGTAGGAAATATTCAAGCTACTTCTCCATGTTTACATCCTACTGATCTTCAAAAAGTTGCAGAAATGATTTCG  
AGAAGAAGGATATGATTCTGTTTTCTGTTGTGAGACGCCATCAGTTTCGATGGAGTGAAATTCAGAAAGGAGT  
TCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGCTAAACGGCCTCGTCGACAAGACTGGGATGGAGAATTATA  
TGAAAATGGCTCATTTTATTTTGTAAAAGACATTTGATAGAGATGGGTTACTTGCAGGGTGGAAAAATGGCATA  
CTATGAAATGCGAGCTGAACATAGTGTGGATATAGATGTGGATATTGATTGGCCTATTGCAGAGCAAAGAGTATT  
AAGATATGGCTATTTTGGCAAAGAGAAGCTTAAGGAAATAAAACTTTTGGTTTGCAATATTGATGGATGTCTCAC  
CAATGGCCACATTTATGTATCAGGAGACCAAAAAGAAATAATATCTTATGATGTAAAAGATGCTATTGGGATAAG  
TTTATTAAAGAAAAGTGGTATTGAGGTGAGGCTAATCTCAGAAAGGGCCTGTTCAAAGCAGACGCTGTCTTCTTT  
AAAAGTGGATTGCAAAATGGAAGTCAGTGTATCAGACAAGCTAGCAGTTGTAGATGAATGGAGAAAAGAAATGGG  
CCTGTGCTGGAAAGAAGTGGCATATCTTGGAAATGAAGTGTCTGATGAAGAGTGCTTGAAGAGAGTGGGCCATAAG  
TGCGGCTCCTGCTGATGCCTGTTCTACTGCCCAGAAGGCTGTTGGATACATTTGCAAATGTAATGGTGGCCGTGG  
TGCCATCCGAGAATTTGCAGAGCACATTTGCCTACTAATGGAAAAGGTTAATAATTCATGCCAAAAATAGAAATT  
AGCGTAATATTGAGAAAAAATGATACAGCCTTCTTCAGCCAGTTTGCTTTTATTTTGGATTAAAGTAAATCCAT  
GTTGTAATGTTACAGAGAGTGTGATTGGTTTTGTGATATATATATATTGTGCTCTACTTTTCTTTTACGCAAGA  
TAATTATTTAGAGACTGATTACAGTCTTTCTCAGATTTTGTAGTAAATGCAAGTAAGAACATCATCAAAGTTCACT  
TTGTATTGTACCTGTAAAAGTGTGTGTTGTGTGCTTTCAAAGATGTTGGGATTTTATTTATCTGGGGACAGTG  
TGTATGGTAAGACATGCCCTTCTATTAATAAAACTACATTTCTC

3814/6881  
**FIGURE 3514**

MDSVEKGAATSVSNPRGRPSRGRPPKLQRNSRGGQGRGVEKPPHLAALILARGGSKGIPLKNIKHLAGVPLIGWV  
LRAALDSGAFQSVWVSTDHDEIENVAKQFGAQVHRRSSEVSKDSSTSLDAIIIEFLNYHNEVDIVGNIQATSPCLH  
PTDLQKVAEMIREEGYDSVFSVVRRHQFRWSEIQKGVREVTEPLNLNPAKRPRRQDWDGELYENGsfYFAKRHLI  
EMGYLQGGKMAYYEMRAEHSVDIDVDIDWP IAEQRLRYGYFGKEKLKEIKLLVCNIDGCLTNGHIYVSGDQKEI  
ISYDVKDAIGISLLKKSGIEVRLISERACSKQTLSSLKLDCKMEVSVSDKLAVVDEWRKEMGLCWKEVAYLGNEV  
SDEECLKRVGLSGAPADACSTAQKAVGYICKCNGGRGAIREFAEHICLLMEKVNNSCQK

3815/6881  
**FIGURE 3515**

TATAACATCTCCTGCTAAGCAAAGCCCACTGACTAATTAGTCACCACTACACAAGGAAAAACAGCATTATTTT  
GAGGCTGAATTAATGTTAGTTTTCTCATTTTCTCATCTTCATTCTCTCTGCTGTTGAAGAAATGTTTCAGTGGCCA  
ACTGATTCTGCTTCTCTCTTGCAGGTTTCCTATCCTGGGAGCAGGAGAGTGTGCCTATTTGAATGACAAAGGTG  
CCAGTAGTGCCAGGCACTACACAGAGAGGAAGTGGATTGTTCCAAATCAGATATACATGTCTAGATGTTACAGC  
AAAGCCCCAACTAATCTTTAGAAGCATATTGGAAGTATACTCCATTTTAAATGAGCAAAGAATTTATTTCTT  
ATACCAACAGGTATATGAAAATATGCTCAATATCACTAATACTGGGAAAATACAAATCAAATCATAGTAAAA  
ATTACCTGTTTTTCATGGTGCTAATATTACCTGTTCTCCCACTGCTAATGACATACCCGAGACTGAGTAATTTATA  
AATAAAAGAGATTTAATTGACTCATAGTTCCACATGGCTGGGGAGGTCTTGCAATCATGACAGAAGGCAAATGGG  
AAGCAAAGTCATGTCTTATGTGGTGGCAGGCAGGGGGACTTGTGCACAGGAACCTCTATTTATACAACCATCAGA  
TATCTTGAGACAAGAACAGTATGGGGCTCCCTGGTGTGATTCCGTCTGCGCGGCTGTTCTCTGGAGCAGCATT  
ATTTATCTTCGTCTGCCTTGTCTCCTACCTAAGTGTGTGTCGCCACCCGATGGAAGATTGATGGACATGGACAT  
GAGCCCCCTGAGGCCCCAGAACTATCTTTTCAGTTGTGAACTAAAGGCCGACAAAGATGATCACTTTAAGGTGGA  
TAATGATGAAAATGAGACCAGTTATCTTTAAGAACGGTCAGCTCAGGGGCTGGTGCAAAGGATGAACTGCACATT  
GTTGAAGCAGAGGCCATGAATGACGAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAG  
CCAACGGTTTTCTCTTGGGGGCTTTGAAATAACACCACCAGTGGACTTAAGGTTGAAGTGTGGTTCAGGGCCAGTG  
CATATTAGTGGACAGCACTTAGTAGCTGTGAAGGAAGGTGCAGAGTCAGAAGATGAAGAAGAGGAGGATGTGAAA  
CTCTTAAGTATATCTGGAAGCAGTCTGCCCCCTGGAGGTGGGCAGAAAAAAGTAAACTTGCTGCTGCTGCTGAT  
GATGATGATGATGAAGATGATGATGATGATGATGATGACGAGGAAGCTGAAGAAAAAGCGCCAGTGAAGAAATCTATA  
CGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAAATGGAAAAGACTCAAAACCATCATCAACACCAAGA  
TCAAAAGGACAAGAATCCTTCAAAAAACAGGAAAAATCTCTAAACACCAAAAGGATCTAGTTCTGTAGAAGAC  
ATTAAGCAAAAAATGCAAGCAAGTATAGAAAAACGTGGTTCTCTTCCCAAAGTGGAAACCAAGTTCATCAATTAT  
GTGAAGAATTTCTTCTGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAA  
AATAGTTTAAACAATTTGTTAAAAATTTCCATCTTATTTCAATTTCTGTAAACAGTTGATATCTGGCTGTCCTTTT  
TATAGTGCAGAGTGAGAACTTTCCCTACCATGTTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGT  
CCAAAAATGCCTGTTTGTGTTTTAAAGATGGAATCCACCTTTGCTTGGTTTTAAGTATGTATGGGATGCTATGA  
TAGGACATAGTAGTAGCAGTGGTCAGACATGGAAATGGTGGGGAGACAAAAGTATACACGTGAAATAAACTCAG  
TATTTTAATAAAGTAAAAAA

3816/6881  
**FIGURE 3516**

MNDEGSPIKVTLATLKMSVQPTVSLGGFEITPPVDLRLKCGSGPVHISGQHLVAVKEGAESEDEEEEDVKLLSIS  
GKQSAPGGGQKKVKLAAAADDDDDDDDDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQE  
SFKKQEKSPKTPKGSSSVEDIKAKMQASIEKRGS LPKVETKFINYVKNFFWMTDQEAIQDLWQWRKSL

3817/6881  
**FIGURE 3517**

GGCGCCGGGGGACACGTTGGCTGCGTTTTTCGGCGGGCCTCCCGGGTACAAAAATGGCTGTGGCTAGCGATTTCTA  
CCTGCGCTACTACGTAGGGCACAAGGGCAAGTTTGGGCACGAGTTTCTGGAGTTCGAATTTTCGGCCGGACGGAAA  
GCTTAGATATGCCAACACAGCAATTACAAAAATGATGTGATGATCAGAAAAGAGGCTTATGTGCACAAGAGTGT  
AATGGAAGAACTGAAGAGAATTATTGATGACAGTGAAATTACAAAAGAAGATGATGCTTTGTGGCCTCCCCCTGA  
TAGGGTTGGCCGACAGGAGCTTGAAATTGTAATTGGAGATGAGCACATATCTTTTACCACATCAAAAAATAGGTTT  
TCTTATTGATGTAAATCAGTCAAAGGATCCTGAAGGCCCTCGAGTATTTTACTATTTGGTACAAGACTTGAAATG  
TTTAGTTTTTCACTCTTATTGGATTACACTTCAAGATTAAACCAATTTAAATGTATGTTTTTCAGGCTGTTTGTAT  
ATTTAATTAAGGGATGGGAGGGGTTATTTGTCATTTACAGTATTGGGGTTTTTATGAATGTGAAGCAAAACAAAA  
AAATTTGTATGTAACTGAAAATAAGAAAATACATTAGCAAGCTTAATGGTTATCCTTACTTGAGTCCACATGGG  
TTGGACAGTCCCCACACACATTAAATTCTGTAATGAAAGCCACCTTTTGTAAAAATTTGCTCTAATAAAACAT  
ACCAAAFCCTGGTTGCAGAGTAGTTTTTTTGTTTTTTCCAGGAGGCTATGTCTCTAATTCACTTTGTAGATAATAA  
GAAATTGTCTGGTAGATACATCCTGTGACAGAAGATACTTTAGGTGGAACATGTAGCCAGATTCCCATCCATG  
AAAGGCAAGTGTAGATTGTCCCTTATTTCTTCATACATGATTGGATTTAATTTTGGGGGGCTTATACAAGGTCT  
AGTTTTTTTTTACAGTTATGACAAACCCCTCAGGGATTATTCACATTTAAATATTTTACAGTTACAAGCAGTGAGG  
TCCTAAAGTGTTACAAGAGTACAGTCTACCCCATGTTAGGCATATCTTTGATTATGTCTTTATTCCTTATTTTAC  
AATGTATTTGGTGTGTAGGGGAGGGGGGAGAACTAAATGAGTTTTTTCAGCTTTATAAATTTGTTAAACATTTAGACA  
AACATATATGTATGTATGAATGTACATAAATATTTTTAACTCCTATTGACCACGAGTCTCACTTCAGTTTCCCAG  
TTCCCTTCAACCTCTTTCTGATAGATTTCCCTCTTTTATTACTTTTAGTAACCATGTTCCCTTGTTCCTTTTATTC  
TTCCATCTGAAGCCCCACTCTTAAAAAGTTGCACTGTTCCAGTAGTTATAATCCACTTGCCCTAGGAACAAGTTA  
GCACTGAATTTTGGGTGGAATAATTAGTTTCTGAAGGCTTGCCAGGACCCCTGAGCAGGTAGGCTCTAGAGTCGG  
GCAGTCCAATAACTTTTTTGAATAATGGAACGTCCTATGTGCAGTCCAATAGGGTAGCAACTGGCCAAATGAG  
GCCTACTGATTACTTGAGGTGTGCCTTGTATAACTGAATTTATGGTGCTATTTAAACAATTTTTTTCTAACGTGA  
AAAGGATAAAACATAAAAACTCTTGAGAACTATAAAGTGAACACCTATATGCCTACCCCTACCTAGATTCTATA  
CTTAACATCTTTTTTACTGTAATATCTCTATTATAATAAATCTTGGTTTTTCACTTAACTGGTGTAAATGGTGCC  
AATAAACTACTTTTTTTGTAGTGCTATTTAAATTTGATTAAATTTAGATAGCCACGTGTCTAGCGGCTACCGTTT  
GGACAGTATAGCTCTAGAGCATGGCTTGGTAACCTGTTTGCCATGGAGCACTAGATGGTCTTTTCACTCCTCAA  
AATGCATGCCCATTTGCCTTCAGGTTTGCCATGGAAAGTCAAATGATTTCCACTTCATTATGCAAGTACGCTATCA  
TCTTCAGGTCTTTTGTATGTAAATGTTTCTGTTCCAGTTGTAGACCTTGATGATTGTGCAGTATGAAATCGTAT  
TGTAATTTTCTTGCAATTTAGATGTCAACCTCAGAAACAGGAACAATCGTCTTTTGAACCTCCAGTAGGCCACAG  
TTGTTGGTTGTTCTCATAAACAGGTTGTGGCTCCTGTTGAATAAGATGATCCATTAAAACTGAACAAGGTTGAG  
GAGAAATAGTGCTTACGTTGAAAAATCTTTAAGTCTTTGTCCCGTCTCTAACTTCCTTACGTTTTCGTTTATT  
TAGCTCCATCCCCACTATCTACTAGAATTTCTCATATTTAAACCAAGATGGGAGACTAGGTCAATTAGGAAAATAT  
TACCGTCTACAATTTTCTTATACTTTGATCTGTCTTTTATTGATTGTAAGTTGCTGATGGACAGTGATCATTAG  
AAACTGAATTTTGTATAATACTAGTTTTATATGAACTAGATATTTATTGCGCTCAGGTTATGTTCCCTTTACCT  
CCTTCCTTAATAAAGAGACCACTTGAAAT

3818/6881  
**FIGURE 3518**

MAVASDFYLRYVVGHKGFGEFLEFEFRPDGKLRYANNSNYKNDVMIRKEAYVHKSVMEELKRIIDDSEITKED  
DALWPPPDRVGRQELEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLRVFYLVQDLKCLVFSLIGLHFKIKPI

3819/6881  
**FIGURE 3519**

AAAACTTGTGCGGGGCCATTTTTGGGGCAGTAAGATCGAGCGAGGAGCCCAAGAGAGAGCGCGCAGCACGAAGC  
TCGAGCCGCTCCGCGCGCGACCCACCTCGGCCGCGCGCCTGCGCCGCGAGATCCGCCCCGGCCTCCCCGA  
GAGCGAGCCCCGGCGCGCGGACACCAGCCGCGCTAACCGCCGACCAACCGCCACCGAGGCGCCTGAGCGAGAG  
CAGAGGAGGAGGAGGCATGAGTGAGGCGGGCGAGGCCACCACCACCACCACCCTCCCGCAGGCTCCGCAC  
GGAGGCGGCCCGCGGGCTCCCCAGGACCCCGCGCCCAAGAGCCCGGTGGGCAGCGGTGCGCCCCAGGCCGCGGC  
CCCGGCGCCCGCGCCACGTCGCGAGGAAACCCCGGTGGGGACGCGGCCCCCGCAGCCACGGGCACCGCGGCCG  
CGCCTCTTTAGCCACCGCCGCGCGGAGCGAAGACGCGGAGAAAAAGTTCTCGCCACCAAAGTCTTTGGCACTGT  
CAAATGGTTCAACGTCAGAAATGGATATGGATTATAAATCGAAATGACACCAAAGAAGATGTATTTGTACATCA  
GACTGCCATCAAGAAGAATAACCCACGGAAATATCTGCGCAGTGTAGGAGATGGAGAACTGTAGAGTTTGATGT  
GGTTGAAGGAGAGAAGGGTGCAGAACTGCCAATGTGACTGGCCCGGATGGAGTTCCTGTGGAAGGGAGTCGTTA  
CGCTGCAGATCGCGCGCGTTACAGACGTGGCTACTATGGAAGGCGCGCTGGCCCTCCCCGGAATGCTGGTGAGAT  
TGGAGAGATGAAGGATGGAGTCCCAGAGGGAGCACAACTTCAGGGACCGGTTTCATCGAAATCCAACCTACCGCCC  
AAGGTACCGTAGCAGGGGACCTCCTCGCCACGACCTGCCCCAGCAGTTGGAGAGGCTGAAGATAAAGAAAATCA  
GCAAGCCACCACTGGTCCAAACCAGCCGTCTGTTTCGCCGTGGATACCGGCGTCCCTACAATTACCGGCGTCGCCC  
GCGTCCTCCTAACGCTCCTTCACAAGATGGCAAAGAGGCCAAGGCAGGTGAAGCACCAACTGAGAACCCTGCTCC  
ACCCACCCAGCAGAGCAGTGCTGAGTAACACCAGGCTCCTCAGGCACCTTCACCATCGGCAGGTGACCTAAAGAA  
TTAATGACCATTTCAGAAATAAAGCAAAAAGCAGGCCACAACCTTAACCAACACCAAAGAAACATCCAAGCAATAA  
AGTGGAAGACTAACCAAGATTTGGACATTGGAATGTTTACTGTTATTCCTTAAGAAACAACCTACAAAAGAAAAT  
GTCAACAAATTTTCCAGCAAGCTGAGAACCTGGGAATTCCTGCACGGAAGACAAGAGAGTAGCCTCTCCAGTTT  
CAGCAACCGCTAGGTTTCTATTTTTTTCCTGGTTTTTACTGTTTTGGTAATATATATATTGAAACAAGAAATAT  
TAATACCACATGGGGAGAACCCCAACCAAAGAAATCTGAAATATATAGTAAATGCTTTTTTTCCGTTTTTGTTC  
ATTTTGGATGCTGGTGCTAAACCTCCAAGTGTCATGATTTAAAAAATAAATTTATGTCCTTCTTATTTATT  
TCTAGGATGAGGGGAGGATAACATTTTGCTTCTTATGTGACTCTCTTTGAAAATGTGCAGTAAGAAATTCCTC  
AAAAATAAAATTTTACCCTTCAGAGG



3820/6881

**FIGURE 3520**

CAGAGCCTCCTTCAAGATGCTGCTGGTCCTGCTCTCAGTGGTCCTTCTGGCTCTGAGCTCAGCTCAGAGCACAGA  
TAATGATGTGAACATATGAAGACTTTACTTTCACCATACCAGATGTAGAGGACTCAAGTCAGAGACCAGATCAGGG  
ACCCAGAGACCTCCTCCTGAAGGACTCCTACCTAGACCCCTGGTGATAGTGGTAACCAAGATGATGGTCCTCA  
GCAGAGACCACCAAAACCAGGAGGCCATCACCGCCATCCTCCCCACCTCCTTTCAAATCAGCAACGACCACC  
CCAACGAGGACACCGTCAACTCTCTCTACCCCGATTTCCTTCTGTCAGCCTGCAGGAAGCATCATCATTCTTCG  
GAGGGACAGACCAGCAAGACATCCCCAGGAGCAACCCTCTGGTTAATCTAGAATTCAGTGGCAGAAAATAAATAA  
GAAGATAACTTCCTTCAGAAAGCCATGACATTGAAATAATGTGGTCATAACTCTTTC

3821/6881  
**FIGURE 3521**

MLLVLLSVVLLALSSAQSTDNDVNYEDFTFTIPDVEDSSQRPDQGPQRPPPEGLLPRPPGDSGNQDDGPPQRPPK  
PGGHHRHPPPPPFQNRPPQRGHRQLSLPRFPSVSLQEASSFFRRDRPARHPQEQLW

3822/6881

**FIGURE 3522**

GGGGGGGGGAGCACAAAGTTGGGAGTGACACCAGAGCCTCCTGCAAGATGCTTCTGATTCTGCTGTCAGTGGCCC  
TGCTGGCCTTCAGCTCAGCTCAGGATTTAAATGAAGATGTCAGCCAGGAAGATGTTCCCTCGTAATATCAGATG  
GAGGAGACTCTGAGCAGTTCATAGATGAGGAGCGTCAGGGACCACCTTTGGGAGGACAGCAATCTCAACCCTCTG  
CTGGTGATGGGAACCAGGATGATGGCCCTCAGCAGGGACCACCCCAACAAGGAGGCCAGCAGCAACAAGGTCCAC  
CACCTCCTCAGGGAAGCCACAAGGACCACCCCAACAGGGAGGCCATCCCCCTCCTCCTCAAGGAAGGCCACAAG  
GACCACCCCAACAGGGAGGCCATCCCCGTCCTCCTCAGGAAGGCCACAAGGACCACCCCAACAGGGAGGCCATC  
AGCAAGGTCCTCCCCACCTCCTCCTGGAAAGCCCCAGGGACCACCTCCCCAAGGGGGCCGCCACAAGGACCTC  
CACAGGGGCAGTCTCCTCAGTAATCCAGGATTCAATGACAGGAAGTGAATAAGAAGATAACAGTGTTCAAATGC  
CGTGAAACATGGCATCATGCTCTAACTTCAGTATACCAATAAAACAATCAGCTTGCAATTTC

3823/6881

**FIGURE 3523**

MLLILLSVALLAFSSAQDLNEDVSQEDVPLVISDGGDSEQFIDEERQGPPLGGQQSQPSAGDGNQDDGPQQGPPQ  
QGGQQQQGPPPPQGKPPQGPPQQGGHPPPPQGRPPQGPPQQGGHPRPPRGRPPQGPPQQGGHQQGPPPPPPGKPPQ  
PPGGRPPQGPPQGQSPQ

3824/6881  
**FIGURE 3524**

TGCAGGGGGGGGAAAAGTTGGGAGTGACACCAGAGCCTTCTGCAAGATGCTTCTGATTCTGCTGTCAGTGGCCC  
TGCTGGCCTTCAGCTCAGCTCAGGACTTAGATGAAGATGTCAGCCAAGAAGACGTTCCCTTGGTAATATCAGATG  
GAGGAGACTCTGAGCAGTTCATAGATGAGGAGCGTCAGGGACCACCTTTGGGAGGACAGCAATCTCAACCCCTCTG  
CTGGTGATGGGAACCAGAATGATGGCCCTCAGCAGGGACCACCCCAACAAGGAGGCCAGCAGCAACAAGGTCCAC  
CACCTCCTCAGGGAAAGCCACAAGGACCACCCCAACAGGGAGGCCATCCCCCTCCTCCTCAAGGAAGGCCACAAG  
GACCACCCCAACAGGGAGGCCATCCCCGTCTCCTCGAGGAAGGCCACAAGGACCACCCCAACAGGGAGGCCATC  
AGCAAGGTCTCCCCACCTCCTCTGGAAAGCCCCAGGGACCACCTCCCCAAGGGGGCCGCCACAAGGACCTC  
CACAGGGGCAGTCTCCTCAGTAATCTAGGATTCAATGACAGGAAGTGAATAAGAAGATGACAGTGTTTCAAATGC  
CTTGAAACATAATGTGATCATGCTCTAACTTCAATATACCAATAAAATAATCAGCTTGC

3825/6881  
**FIGURE 3525**

MLLILLSVALLAFSSAQDLDEDVSQEDVPLVISDGGDSEQFIDEERQGPPLGGQQSQPSAGDGNQNDGPPQGGPPQ  
QGGQQQQGPPPPQGGKPPQGGHPPPPQGRPPQGGHPPPPRGRPPQGGHQQGPPPPPPGKPPQGGP  
PQGGRPQGGPQGSFQ

3826/6881  
**FIGURE 3526**

CCTCTAGCCCTCCCTGCGTTTAGATTTCAGTTGCACCTTTTATTATTTTAACTCTTCTCCTTAGGACACGCAGCCC  
CCAATTTGTCCCTCCGCCTGGGCGGCCCTGGTCCCGCGCGCCAGCATGGGAGAGCGAGGGACCTGCCCCGGGCC  
CGCCGGCGTGTGCAAGGAGGTCCAGCCGCGCGCCGCTACCCGGAGTCTGAGGACGGGTGTCCAGGGACGGAGA  
GGCAGGTGAGAGGGAGGTGGCTAAGCTGGCTATGGTGACAGGACGATGTTGGCCAGAAAGAGTATCATCCCGGAG  
GAGTATGTGCTGGCGCGCATCGCCGAGAGAACCTGCGCAAGCCGCGCATCCGAGACCGCTCCCCAAAGCCGCG  
TTCATCGCCAAGAGCGGGGCTGCAACCTGGCGCATAAGAACATCCGTGAGCAAGGACGCTTTCTACAGGACATC  
TTCACCACCTTGGTGGACCTGAAATGGCGCCACACGCTGGTCATCTTTACCATGTCCTTCTCTGCAGCTGGCTG  
CTCTTCGCTATCATGTGGTGGCTGGTGGCCTTTGCCCATGGGGACATCTATGCTTACATGGAGAAAAGTGAATG  
GAGAAAAGTGGTTTGGAGTCCACTGTGTGTGTGACTAATGTCAGGTCTTTCACTTCTGCTTTTCTCTTCTCCATT  
GAAGTTCAAGTTACCATTGGGTTTGGAGGGAGGATGATGACAGAGGAATGCCCTTTGGCCATCACGGTTTTGATT  
CTCCAGAAATATTGTGGGTTTGATCATCAATGCAGTCATGTTAGGCTGCATTTTCATGAAAACAGCTCAGGCTCAC  
AGAAGGGCAGAACTTTGATTTTCAGCCGCCATGCTGTGATTGCCGTCCGAAATGGCAAGCTGTGCTTCATGTTT  
CGAGTGGGTGACCTGAGGAAAAGCATGATCATTAGTGCCTCTGTGCGCATCCAGGTGGTCAAGAAAACAACACTACA  
CCTGAAGGGGAGGTGGTTTCTATTACCAACTGGACATTCTGTTGATAACCCAATCGAGAGCAATAACATTTTT  
CTGGTGGCCCTTTGATCATCTGCCACGTGATTGACAAGCGCAGTCCCCTGTATGACATCTCAGCAACTGACCTG  
GCCAACCAAGACTTGGAGGTCATAGTTATTCTGGAAGGAGTGGTTGAACTACTGGCATCACCACACAAGCACGA  
ACCTCCTACATTGCTGAGGAGATCCAATGGGGCCACCGCTTTGTGTCCATTGTGACTGAGGAAGAAGGAGTGAT  
TCTGTGGATTACTCAAATTTGGCAACACTGTTAAAGTAGCTGCTCCACGGTGCAGTGCCCGAGAGCTGGATGAG  
AAACCTTCCATCCTTATTTCAGACCCTCCAAAAGAGTGAAGTGTCTCATCAAATTTCTCTGAGGAAGCGCAACTCC  
ATGAGAAGAAACAATTCCATGAGGAGGAACAATTCTATCCGAAGGAACAATTCTTCCCTCATGGTACCAAAGGTG  
CAATTTATGACTCCAGAAGGAAATCAAACACATCGGAATCATGACAGCAAGATAACCCCAAGACAGTCTTTTAT  
CAAGTTTTGACGGTTTATGCTGGGCACTGCCAGACTGAACCAGAGCTGGAACACAATAATGTGTCTTCTACATT  
TTATTACACTAAATGATATTCAATTCAAGCAACAGCACTTTCTGTAGTAATAAAAAGTAACACACCAAGTGGAG  
GATTCATGGCTTATGCTTGTTT

3827/6881  
**FIGURE 3527**

MLARKSIIP E EYVLARIAAENLRKPRIRDRLPKARFIAKSGACNLAHKNIREQGRFLQDIFTTLVDLKWRHTLVI  
FTMSFLCSWLLFAIMWWLVAFAGDIYAYMEKSGMEKSGLESTVCVTNVRSTSAFLFSIEVQVTIGFGGRMMTE  
ECPLAITVLILQNIIVGLIINAVMLGCIFMKTAQAHRRAETLIFSRHAVIAVRNGKLCFMFRVGD LRKSMIISASV  
RIQVVKKTTTPEGEVVP I HQLDIPVDNPIESNNIFLVAPLIICHVIDKRSPLYDISATDLANQDLEVIVILEGVV  
ETTGITTQARTSYIAEEIQWGHREVSIVTEEEGVYSVDYSKFGNTVKVAAPRCSARELDEKPSILIQTLQKSELS  
HQNSLRKRNSMRRNNSMRRNNSIRRNNSLMVPKVQFMTPEGNQNTSES



3828/6881  
**FIGURE 3528**

GCCGGAGGAGACGCACGCAGCTGACTTTGTCTTCTCCGCACGACTGTTACAGAGGTCTCCAGAGCCTTCTCTCTC  
CTGTGCAAAATGGCAACTCTTAAGGAAAACTCATTGCACCAGTTGCGGAAGAAGAGGCAACAGTTCCAAACAAT  
AAGATCACTGTAGTGGGTGTTGGACAAGTTGGTATGGCGTGTGCTATCAGCATTCTGGGAAAGTCTCTGGCTGAT  
GAAC TTGCTCTTGTGGATGTTTTGGAAGATAAGCTTAAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTT  
CTTCAGACACCTAAAATTGTGGCAGATAAAGATTATTCTGTGACTGCCAATTCTAAGATTGTAGTGGTAACTGCA  
GGAGTCCGTCAGCAAGAAGGGGAGAGTCGGCTCAATCTGGTGCAGAGAAATGTTAATGTCTTCAAATTCATTATT  
CCTCAGATCGTCAAGTACAGTCCTGATTGCATCATAATTGTGGTTTTCCAACCCAGTGGACATTCTTACGTATGTT  
ACCTGGAAACTAAGTGGATTACCCAAACACCGCGTGATTGGAAGTGGATGTAATCTGGATTCTGCTAGATTTTCGC  
TACCTTATGGCTGAAAAACTTGGCATTTCATCCAGCAGCTGCCATGGATGGATTTTGGGGGAACATGGCGACTCA  
AGTGTGGCTGTGTGGAGTGGTGTGAATGTGGCAGGTGTTTCTCTCCAGGAATTGAATCCAGAAATGGGAAGTGC  
AATGATAGTGAATAATTGGAAGGAAGTGCATAAGATGGTGGTTGAAAGTGCCTATGAAGTCATCAAGCTAAAAGGA  
TATACCAACTGGGCTATTGGATTAAGTGTGGCTGATCTTATTGAATCCATGTTGAAAAATCTATCCAGGATTCAT  
CCCGTGTCAACAATGGTAAAGGGGATGTATGGCATTGAGAATGAAGTCTTCCTGAGCCTTCCATGTATCCTCAAT  
GCCCCGGGGATTAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGCTCAAGAAAAGTGCAGAT  
ACCTGTGGGACATCCAGAAGGACCTAAAAGACCTGTGACTAGTGAGCTCTAGGCTGTAGAAATTTAAAACTAC  
AATGTGATTAAC TCGAGCCTTTAGTTTTTCATCCATGTACATGGATCACAGTTTGCTTTGATCTTCTTCAATATGT  
GAATTTGGGCTCACAGAATCAAAGCCTATGCTTGGTTTAATGCTTGCAATCTGAGCTCTTGAACAAATAAAATTA  
ACTATTGTAGTGTG

3829/6881  
**FIGURE 3529**

ATTGAGGCAGCGCGCCCTCCCCGACGGCAGGGAAGTTCGTGGTGG  
ATTCAGTAAACCACTGGGAGTCCGGCAGCATGGAGGCAGCGCGCCCTCCCCGACGGCAGGGAAGTTCGTGGTGG  
TCGGCGGCGGCATCGCGGGCGTCACTTGTGCGGAGCAGTTGGCTACTCACTTTCCATCGGAAGATATTCTCTTGG  
TAACAGCTTCTCTGTATTATTAAAGCAGTTACAAATTTCAAGCAGATTTCATAAATATTTGGAAGAATTCGATGTTG  
AAGAACAATCAAGTACCATGTTAGGAAAACGCTTTCCCAACATTAAGGTTATAGAATCTGGCGTAAAGCAACTGA  
AGAGTGAAGAACACTGCATTGTAACAGAAGATGGCAATCAGCACGTATATAAGAACTCTGTCTGTGTCTGGAG  
CTAAACCAAAGTTGATATGTGAAGGAAATCCTTATGTATTAGGAATCCGTGATACAGACAGTGCTCAGGAATTTT  
AGAAACAGCTTACTAAAGCTAAAAGAATAATGATCATAGGGAACGGTGGTATTGCACTTGAGTTAGTGTATGAAA  
TTGAAGGCTGTGAAGTGATTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTCTTCGATGCAGGAGCAGCTG  
AATTCTTGACTTCAAAGCTCATTGCTGAAAAATCAGAGGCTAAAAATGCACATAAAAGAACCAGATATACAACTG  
AAGGAAGGAAAAAGGAAGCTAGAAGCAAATCTAAAGCAGATAATGTAGGAAGTGATTGGGACCAGATTGGCATG  
AAGGCTTGAATCTTAAAGGAACAAAAGAGTTTTCTCATAAGATTACCTTGAAACTATGTGTGAAGTAAAGAAAA  
TCTACCTTCAGGATGAGTTTAGAATTTTGAAGAAAAAGTCCTTCACTTTTCCAAGAGACCATAAGTCAGTTACAG  
CTGATACAGAGATGTGGCCTGTCTATGTGGAATTGACCAATGAAAAGATATATGGCTGCGATTTTATTGTCACTG  
CTACAGGAGTTACACCAAATGTAGAACCCTTTTCTCCATGGTAACAGTTTTGATCTAGGAGAAGATGGTGGCCTGA  
AAGTGGATGATCATATGCACACATCCCTTCCTGATATCTATGCTGCCGGTGACATCTGTACTACATCCTGGCAGC  
TGAGCCCAGTCTGGCAGCAGATGAGGCTGTGGACCCAGGCTAGACAGATGGGATGGTATGCAGCAAAGTGCATGG  
CTGCAGCGAGTTCAAGGAGACTCTATTGACATGGATTTCAGCTTTGAACTGTTTGCTCATGTGACAAAATTTTTTA  
ACTATAAGGTTGTACTGCTGGGAAAAATACAATGCACAGGGCTTAGGTTTCAGATCATGAATTAATGCTGAGATGTA  
CCAAAGGACGAGGAATACATCAAAGTCGTATGCAAAATGGACGAATGATGGGAGCTGTCTTAATTGGTGAAAACC  
GATTTAGAAGAAACATTTGAAAACCTAATCTTAAACCAAATGAATCTTTCATCATATGGAGAAGATCTGCTAGAT  
CCAAATATTGATATAGAAGATTATTTGACTAAAAATGGAATTTCTTCAGGAATCATATAAAGTTCCAAATGACA  
CCAGAAAAATCACAAGTCAATAAAATGAATGACTGTATTGAGTTAATGATGACCACACTGAAAATTACAGAAGTG  
ATAATGATATTCGTGGAAAAATATAAAAAACATAAATTCTAAGTTTGAAATCAGTTCAAAGTTTATTTATAGATAT  
ATCTTTCCAACACAACACTGACCGCTTAGATAAAAAATCTTAAGTTATTTATTTCTGTGTTTTAAACATAAATATG  
TTTACTTTGTGATTAGCTTTGGAGCAAATTTAGGTAAGTTATCTACTTAGCCAAATGTACTCTAGTAGACTAGAA  
CCATTCTTTGTGAAATGTCAAAATATGGCTATGGTTTCAGGAACCTTAAAAATCGGTTGTATTTTACTTTAAATAG  
AGATGTAGCAATATCTCGTTTGCTAATATTTATATTGATGACTTACTCCTTTTTTGTGTAATTGTACTTCTGGTT  
TTATAACCTGAAATCATCTACAAGCTTGTCCTCAACTCTAGCCACGGGTCTAATGCAGCCCAGAACAGCTTTGAAT  
GCAGCCCAACACAAATCTGTAACTTTCTTAAACATGAGATTTTTCTTGCAATTTTTTTTTTTTTTAAAGCTCATC  
AGCTATCGTCAGTGTTAGCATATTTATGTGCGGCCCAAGACAATTCTTCTTCCAATGTGGCTCAGGGAAGCCAA  
AAGATTGGACATCCCTGATCTACATATTTAACTTAAAGTATCACTCAGTGAACCTCTGTCAGTATAATATTGCTT  
TCAAAAAGATGGTTATGTCAAAAGAAAAATATAGCTAAGTATATAAAGGCATAAAAACTTAAGACAATTACAT  
GAACTTATTCTCAAAATATTTTACATTTTTTGTAACTTTCTTAAACATGAGATTTTTCTTGCAATTTTTTTTTT  
AAGCTCATCAGCTATCATCAGTGTAGCATATTTATGTGCGGCCCAAGACAATTCTTCTTCCAATGTGGCTCAG  
GGAAGCCAAAAGATTGGACATCCTTGATCTACATATTTAACTTAAAGTATCACTCAGTGAATTTCTTTAAAAAC  
TATTGTCTAACTACAAAAATAATGGCATATACATGCATAAACCATCTTAAATTAGAAAATTTAGTAACAGTCATA  
TCAGGCATCATCGATTTTTCTTTCTTAGCTCCTGTATTCTTAGAACCAGATTGCTGAAGCATGTTTGCAGCCTT  
CTTCTGGAAGTTGCCTGAATTTTTTCTCTCCATCTTTTATCACCTTGTTTCAAGATGACAAGTTTGAGACGATTC  
AGCCTACAAAAA

3830/6881

**FIGURE 3530**

MEAA RPPPTAGKFVVVG GGIAGVTCAEQLATHFPSEDILLVTASPVIKAVTNFKQISKILEEFDVEEQSSTMLGK.  
RFPNIKVIESGVKQLKSEEHCIVTEDGNQH VYKKLCLCAGAKPKLICEGNPYVLGIRD TDSAQEFQKQLTKAKRI  
MIIGNGGIALELVYEIEGCEVIWAIKDKAIGN TFFDAGAAEFLTSKLIAEKSEAKIAHKRTRYTTEGRKK EARSK  
SKADNVGSALGPDWHEGLNLKGTKEFSHKIHLETMC EVKKIYLQDEFRI LKKKSFTFPRDHKSVTADTEMWPVYV  
ELTNEKIYGCDFIVSATGVTPNVEPFLHGNSFDLGEDGGLKVDDHMHTSLPDIYAAGDICTTSWQLSPVWQQMRL  
WTQARQMGWYAAKCM AAASSGDSIDMDFS FEFHVTKFFNYKV VLLGKYNAQGLGSDHELMRLCTKGRGIHQSR  
HAKWTNDGSCLNW

3831/6881  
**FIGURE 3531**

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTGCCTCGTCAGCCTCCTTGCTCGCCGAGCCGCCTCCGCCGCG  
CGCCTCCTCCGCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTTATCCCC  
TGCATCGCGTACCCGGCGTGCCCCACCATGTCAGACGCAGCCGTAGACACCAGCTCCGAAATCACCACCGAGGAC  
TTAAAGGAGAAGAAGGAAGTTGTGGAAGAGGCGGAAAATGGAAGAGACGCCCTGCTAACAGGAATGCTAATGAG  
GAAAATGGGGAGCCGGAGGCTGACAACGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAA  
GAAGGTGATGGTGAGGAAGAGGACGGAGATGAAGATGAGGGAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAA  
GATGATGAGGATGACACGCGCTCTCCACCACCAACCCAAACCATGAGAATTGCAACAGGGGAGGGAAAAAGAA  
CCAAAACCTTCCAAGGCCCTGCTTTTTTTTTCTTAAAAGTACTTTAAAAAGGAACTTGTATTTTTTATTACATT  
TTATATTTTTGTACATATTGTTAGGGTCGGCCATTTTAAATGATCTCGGATGACCAAACAGCCTTCGGAGCGTT  
CTCTGTCTACTTCTCACTTTACTTG

3832/6881

**FIGURE 3532**

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTGCCTCGTCAGCCTCCTTGCTCGCCGCAGCCGCCTCCGCGGCG  
CGCCTCCTCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTTATCCCC  
TGCATCGCGTCACCGGCGTGCCCCACCATGTGACACGCAGCCGTAGACACCAGCTCCGAAATCACCACCGAGGAC  
TTAAAGGAGAAGAAGGAAGTTGTGGAAGAGGCGGAAAATGGAAGAGACGCCCTGCTAACAGGAATGCTAATGAG  
GAAAATGGGGAGCCGGAGGCTGACAACGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAA  
GAAGGTGATGGTGAGGAAGAGGACGGAGATGAAGATGAGGGAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAA  
GATGATGAGGATGACGATGTGATACCCAGAAGCAGAAGACCGACGAGGATGACCAGACAGCAAAAAAGGAAAAG  
TTAAACTAAAAAAAAGGCCGCCGTGACCTATTCGCCCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACCT  
TCGAGTAGAGGGGCCGCCGCCGCCACCGTGGGCAGTGCCACCCGCAGATGACACGCGCTCTCCACCACCCAACCC  
AAACCATGAGAATTTGCAACAGGGGAGGAAAAAGAACCAAACTTCCAAGGCCCTGCTTTTTTTTTCTTAAAAG  
TACTTTAAAAGGAACTTGTATTTTTTATTTACATTTTATATTTTGTACATATTGTTAGGGTCGGCCATTTTT  
AATGATCTCGGATGACCAAACAGCCTTCGGAGCGTTCTCTGTCCTACTTCTCACTTTACTTGTGGTGTGGCCAT  
GTTCAATTATAATCTCAAAGGAGAAAAAAAACCTTGTA AAAAATGCAAAAATGACAACAGAAAAACCATCTTATTC  
CGAGCATTCCAGTAACTTTTTGTGTATGTACTTAGCTGTACTATAAGTAGTTGGTTTGTATGAGATGGTTAAAA  
AGGCCAAAGATAAAAGTTTCTTTTTTTTCCTTGCTGTGAAGTTGCTGTTTATTTTTTTTTTGCCCTGTTTGATG  
TATGTGTGAAACAATGTTGTCCAACAATAAACAGGAATTTATTTTGCTGAGCTGTTCT

3833/6881

## FIGURE 3533A

AGTAGGGAGGTGGGCAGGAGCCAGTGATGACGGAATGGCAATCACATTGACCTCTGATCTGTTTATTTCTCTCT  
CCTTGACGTCTCCATATAAATGTTACACGGGCATCCCCACACTCGGATACGCACCCACAGTGGCTGATTTCGGGGG  
TAACCGTGTCATTGTCTTGCAACACTGGCACCTCTGCCCTGCACCCCGGGAGTGAGCAGTGAGTGAGGCTCGGGT  
CTGGGCGCTGGCTCCGAATCTTCGGGCTGGGAGAGACTCCACCATCTGGGGCGGCCTGGGGGAGCAGCCTTAGT  
GTCTTCCTGCTGATGCAATCCGCTAGGTCGCGAGTCTCCGCCGCGAGAGGGCCGGTCTGCAATCCAGCCCGCCAC  
GTGTACTCGCCCGCCCTCGGGCACTGCCCCAGGTCTTGCTGCAGCCGGGACCGCGCTCTGCAGCCGAGACCCG  
GTCCACACGGCCAGGGGCTACGACCCCTGGGATCTGCCCTCCGCTCAGCTCGAGCTTCCCTCGTGGCCGACGGAA  
CAATGAAGGATTGCAGTAACGGATGCTCCGCAGAGTGTACCGGAGAAGGAGGATCAAAAGAGGTGGTGGGGACTT  
TTAAGGCTAAAGACCTAATAGTCACACCAGCTACCATTTAAAGGAAAAACCAGACCCCAATAATCTGGTTTTTG  
GAACTGTGTTACGGATCATATGCTGACGGTGGAGTGGTCTCAGAGTTTGGATGGGAGAAACCTCATATCAAGC  
CTCTTCAGAACCTGTCATTGCACCCTGGCTCATCAGCTTTGCACTATGCAGTGGAATTATTGAAGGATTGAAGG  
CATTTTCGAGGAGTAGATAATAAAATTCGACTGTTTCAGCCAAACCTCAACATGGATAGAATGTATCGCTCTGCTG  
TGAGGGCAACTCTGCCGGTATTTGACAAAGAAGAGCTCTTAGAGTGTATTCAACAGCTTGTGAAATTGGATCAAG  
AATGGGTCCCATTCAACATCTGCTAGTCTGTATATTCTGCTTACATTCAATTGGAAGTGAAGCCTTCTCTTGGAG  
TCAAGAAGCCTACCAAAGCCCTGCTCTTTGTACTCTTGAGCCAGTGGGACCTTATTTTCAAGTGAACCTTTA  
ATCCAGTGTCCCTGTGGGCCAATCCCAAGTATGTAAGAGCCTGGAAAGGTGGAAGTGGGGACTGCAAGATGGGAG  
GGAATTACGGCTCATCTCTTTTTGCCCAATGTGAAGCAGTAGATAATGGGTGTCAGCAGGTCTGTGGCTCTATG  
GAGAGGACCATCAGATCACTGAAGTGGGAAGTATGAATCTTTTTCTTTACTGGATAAATGAAGATGGAGAAGAAG  
AACTGGCAACTCCTCCACTAGATGGCATCATTCTTCCAGAGTGACAAGGCGGTGCATTCTGGACCTGGCACATC  
AGTGGGGTGAATTTAAGGTGTGAGAGAGATACCTCACCATGGATGACTTGACAACAGCCCTGGAGGGGAACAGAG  
TGAGAGAGATGTTTGGCTCTGGTACAGCCTGTGTTGTTTGGCCAGTTTCTGATATACTGTACAAAGGCGAGACAA  
TACACATTCCAATATGGAGAATGGTCTAAGCTGGCAAGCCGCATCTTGAGCAAATTAACGTATATCCAGTATG  
GAAGAGAAGAGAGCGACTGGACAATTGTGCTATCTGAAATGGAAAATAGAGGATACAATGGAAAATAGAGGATAC  
CAACTGTATGCTACTGGGACAGACTGTTGCATTTGAATTGTGATAGATTTCTTTGGCTACCTGTGCATAATGTAG  
TTTGTAGTATCAATGTGTACAAAGAGTGATTGTTTCTTCATGCCAGAGAAAATGAATTGCAATCATCAAATGGTG  
TTTCATAACTTGGTAGTAGTAACCTTACCTTACCTTAGAAAAACATTAATGTAAGCCATATAACATGGGATT  
TTCTCTCAATGATTTTAGTGCCCTCCTTTTGTACTTCACTCAGATACTAAATAGTAGTTTATTCTTTAATATAAGTT  
ACATTCTGCTCCTCAACAAATGCAATTTTTTGTGTGTGTTGAAAGCTAATTTGAGAAAATTCATAGGTTACA  
TTTCTGTCAGCCTATCTTTATCCACAGAAAGTGTCTTTCTTTTTTAAATCAAGACTTTTAAACTGGATTTCTCT  
CCCATCACTGTTTTTTGAAGGTCTCCAAAGTCCGTGTTAAGGTAAATATCTGTTTTCTTCTGATGTCACAGCCT  
GAGCATACTCTGTGCATTAGGAAGACCTGAGTGCATTTCCACCATTTGCTTTCCACATTATGTTGTAGCTGGC  
TGCTGTGACGGGACTACAAGACTGAGGGTCTTGTCCTTATAGATCTTTGTATCCCCATGGCTGACATATAGT  
AGGTACTCAGTAAATGGTTTTATAATGAATCAGTGAACATTTTGCTTCTATAGAAGTGTACCTTCTTGTCTTA  
TATTATGAAACCTCTTTATTAGAATTTGTGATTGATTCTGACAGTGTATAGATTTACCTTATATTGTCTTTATT  
TCCATGAGCTACTAAGTCATTAGAGATACTCTGAAGCATAGTTAGTTTAGGAAATCACTTCATATTGATTGTATT  
AGAATTATCTTGAATTGAAGATATATCCCTAGAGCAGGGGACCCCAACCCAGGCCATGGGCCACACAGCAGG  
AAGAGGTGAGTGGTGGGCCATTGAGGAGCTTCATCTGTATTTATGGCTACTTCCCATCACTCGAATTACCACCTG  
AACTCCACCTCTGTGACGTCAGTGGCAGCATTAGATTCTCATAGGAGCACAAATCCTATTGTGAAGTCTGCATG  
CAAGGGATCTAGGCTATGCGCTCCTTATGAGAATCTAATGCTTGATGACCTGAGGTGTAACAGTTTCATCTGAA  
ACCACCTTCACCCTGCAGTCTGTGGAAAAATGTCTTCCACAAAACCTGGTCCCTGGTGCCAAAAATGTTGGGGA  
CCACTGCTCTAGAGAGAGGTGATGATATCATACCAACCAATGGAAATGACAAATGTTTTATGTCAAGTGTTAAT  
TGCGAGAAATAAATCTTTTTTTTTTTTTTGGTAGAAAACAAAGAGGCATACTCTGATTTTTATACTCTGTTTTT  
GCAGGTGCTCTTTTCTTTGAATGGAGATTTGATGAGCAAGTGGTTAGGATGCAGGGAGAGCTACTATGGGTGATA  
TTTTCTTGTTTAGGAGCTGTGAGTTAAATTTGTATCCTTTGTGGTTTATCTAAGGAAAGTCAAACTTTGACAGA  
AAACATTTTTCTTGGAAAGGTCAACTCTCAGACATTGTATTTTGGTTTCCCTCAGTCTCATAACTTCCTTCTTG  
CTGAACATATTTTATTCTTTTTAGAGAAGGAAAAATAAAAGGATTCTAAAAGTTTGATGCATTGGAATAATTT  
CCTTGAGGCATTTAGCAACACATAGAAAATGGGCTTTGATTCTTTTCCAAAACCTTTAGCCATAGGGTCTTTTAT  
AGACAGGGATAGTAAATGAAAATTGAGAAATATAAGATGAAAAGGAATGATAAAAATATCTTTTAGGGGGCTTT

3834/6881

**FIGURE 3533B**

TAATTGGTGATCTGAAATCTTGGGAGAAGCTGTTCTTTTCAGGCCTGAGGTGCTCTTGACTGTGCGCTGCGCACT  
GTGTACCCCGAGCAACATTCTAAGGGTGTGCTTTTCGCCTTGGCTAACTCCTTTGACCTCATTCTTCATATAGTAG  
TCTAGGAAAAAGTTGCAGGTAATTTAAACTGTCTAGTGGTACATAGTAACTAAATTTCTATTCTATGAGAAATG  
AGAATTATTTATTTGCCATCAACACATTTTATACTTTGCATCTCCAAATTTATTGTGGCGAGACTTGTCCATTGT  
GAAAGTTAGAGAACATTATGTTTGTATCATTTCCTTTTATAAAACCTCAAGAGCATTTTTAAGCCCTTTTCATCAG  
ACCCAGTGAAACTAAGGATAGATGTTTAAAAACGTGAGGTCTCCTGATAAGGAGAACACAATCCACCATTGTCA  
TTTAAGTAATAAGACAGGAAATTGACCTTGACGCTTTCTTGTTAAATAGATTTAACAGGAACATCTGCACATCTT  
TTTTCTTGTGCACATTTTGTAAATTGCAGTGGATTAATACAGCAAGAGTGCCACATTATAACTAGGCAATTAT  
CCATTCTTCAAGACTTAGTTATTGTACACTAATTGATCGTTTAAAGGCATAAGATGGTCTAGCATTAGGAACATG  
TGAAGCTAATCTGCTCAAAAAGATCAACAAATTAATATTGTTGCTGATATTTCATAATTGGCTGCAATTATTTA  
ATGTTTAATTGGGTTGATCAAATGAGATTCAAGCAATTCACAAGTGCATTAATATAAACAGAACTGGTGGCACTTA  
AAATGATAATGATTAACCTTATATTGCATGTTCTCTTCTTTCACTTTTTTCAGTTTCTACATTTCAAGCCGAGCT  
TGTCAGCTTTTTTGAACACATCAGTAGAAACCAAGATTTTAAATGAAGTGTCAAGACAAAGGCAAAACCTGA  
GCAGTTCCTAAAAAGATTTGCTGTTAGAAATTTTCTTTGTGGCAGTCATTTATTAAGGATTCAACTCGTGATACA  
CCAAAAGAAGAGTTGACTTCAGAGATGTGTTCCATGCTCTCTAGCACAGGAATGAATAAATTTATAACACCTGCT  
TTAGCCTTTGTTTTCAAAAGCACAAAGGAAAAGTGAAAGGGAAAGAGAAACAAGTACTGAGAAGTCTTGTTAAG  
GAATCAGGTTTTTTCTACCTGGTAAACATTCTCTATTCTTTTCTCAAAAGATTGCTGTAAGAAAAATGTAAGAC

3835/6881

**FIGURE 3534**

MKDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKPDNNLVFGTVFTDHMLTVEWSSEFGWEKPHIKP  
LQNLSLHPGSSALHYAVELFEGLKAFRGVDNKIRLFQPNLNMDRMYRSAVRATLPVFDKEELLECIQQLVKLDQE  
WVPYSTSASLYIRPTFIGTEPSLGVKKPTKALLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCKMGG  
NYGSSLFAQCEAVDNGCQQVLWLYGEDHQITEVGTMNLFYWINEDGEEELATPPLDGIILPGVTRRCILDLAHQ  
WGEFKVSERYLTMDDLTTALEGNRVREMFSGGTACVCPVSDILYKGETIHIPTMENGPKLASRILSKLTDIQYG  
REESDWTIVLS



3836/6881  
**FIGURE 3535**

AACACATTTTCAGTTTTGCCTGCATCATAAGAGTGAGCACTCCATTGCTTTCTTTCCTGGCCACACTGCTACAAT  
CCAGCACTAACTATCCATGTCCAGGGTAAGGATCGAGATCGAGAAGCCCACACTGCCAGTGAAAAAGCTACGTCT  
TTACTGCATAAATTAGAGGAAGCAATTTTCGGAACAACGGAACCTTCAAACATAAATACTGAATTATCGAACACT  
TGCCAGGCACTTCAGCAGAAGACAAGGAACTGAAGAAGCTTTTTAGATGAGGAATTTCTCACTATGATTCCCT  
GTCCTGCGCAGATGCAATTCACAACCTCTTCAAGAAAAATTGAAGCAGTGTTGCCACAACTATATGGTGGTCA  
AGAAGCAAGAATACATCAGACACCCCTGACCTTGAAACATACGTGCTGGTACACACCTCTGCTGGATGCCTTATC  
TCTGGATAGTTTTACAGCAGTTCCAACCCTGGAATCAACACCTTTCTCAGGTGTAGCCAACCAATCCACACTCT  
GTGTGAAAGGCCACATATGGAGAAGTAAAGGATGGTGCTTTGGATGTAAAAAGACAACACAAGTGCCAGGCC  
CACAAGTGCCCCAGCCAGGAACGAATCTCTCAGGTGCATCAGGATGAATGATGACCAAGTATGGAAGAGAA  
TGGTGTGAACGCGTGTGCTCTGAGAGCCTGCTGCAGTCCAGGGAATATTCCTCACTACCATTACCCAGACACAC  
TTCATCGACAGACGGTACTATAACTTCAAGTGATCCTGGATTAGAAATCTGAATATGGCTTCTTGTGACCTTGA  
CAGAACTCGCTCTGTAAGAAAGAGGAGGATACAAGATCAGCTTCTCCACGATAGAGGCCAAGGCACAAGTCC  
AGCTCATGATAATATTGCATTCCAAGACTCTACGAGTAAGGATAAAACCATATTAAATCTGGAAGCCAAAGAGGA  
ACCAGAAACAATAGAAGAACATAAAAAAGAACATGCTTCAGGAGACTCTGTGGTTTTCCCTCTTCTCTGTAACCAC  
TGTGAAATCGGTTAACCTTAGACAAAGTGAGAACACTTCTGCTAATGAGAAGGAGGTGGAGGCAGAATTTCTCAG  
ATTATCTTTGGGATTAAAGTGTGACTGGTTTACCTTGAGAAGAGAGTGAAGCTTGAAGAGAGGTCCCGTGACTT  
GGCAGAAGAAAATTTGAAGAAAGAAATCACTAACTGTTTAAACTATTAGAGTCTTTAACACCTCTGTGTGAAGA  
TGACAACCAGGCACAGGAAATCATTAAAGAGCTGGAGAAGAGTATAAAGTTTCTTAGCCAGTGTGCAGCACGAGT  
GGCCAGTAGGGCTGAGATGTTGGGAGCCATCAATCAGGAAAGCCGGGTTAGTAAAGCAGTTGAAGTGATGATTCA  
GCACGTAGAAAACCTTGAAGAGGATGTATGCCAAAGAGCACGCTGAATTAGAAGAACTGAAACAGGTTCTTCTGCA  
GAATGAAAGGTCTTTCAATCCTCTTGAAGATGATGATGACTGCCAAATTAAAAAACGTTTCAGCTTCTCTAAACTC  
CAAGCCATCTTCTTACGAAGAGTGACTATTGCCTCTTTACCCAGAAATATTGGAAATGCAGGAATGGTGGCTGG  
GATGGAAAATAATGATCGATTTCAGTAGAAGGTCAAGCAGTTGGCGTATTTTGGGGTCAAAGCAGAGTGAACACCG  
TCCCTCATTACCTCGATTTATTAGCACCTATTCTGGGCAGATGCTGAAGAAGAAAAATGTGAACTAAAACTAA  
AGATGACTCAGAGCCATCTGGAGAAGAAACAGTAGAAAGGACAAGGAAGCCAAGTCTTTCTGAAAAGAAAAATAA  
TCCATCAAAGTGCGATGTCTCTTCAGTTTATGACACAATAGCTTCTGGGCAACAAATCTCAAGTCTCCATCAG  
AAAGGCTAATAAGGCCCTCTGGCTCTCTATTGCATTCTTGTACTGTTTGCAGCTTTGATGAGCTTCTCAGAGG  
CCAATTATTCCAGAAGTCTGTGGATGCCGCTCCACACAGCAAGAGGACTCATGGACGTCTCTAGAACATATCTT  
GTGGCCATTTACCAGACTCCGACACAATGGGCCACCACAGTGTGACAGCAGGACATCCTAATATATGGATCTTG  
ATTTTAAAGTTTCAGTATCTGAACTTCGTAAATTAGTAACTTTTAGCTGGGAAAGTATAGCATGAAACCAGAGGT  
TCTCAGAATGACTGTAAGATAGCTTACATTTCTCTTTTGCCTTTATCTCCCAACTAAAATACAATGGG

3837/6881

**FIGURE 3536**

CCAGCCCTGGCGTGGGCCCAGCCCGGCCAGGCAGCAATGGGGTTCCTGCAGCTGCTGGTCGTAGCGGTGCTGGC  
ATCCGAACACCGGTGGCTGGTGCAGCCGAGGTCTTCGGGAATTCAGCGAGGGTCTTATTGAATTTTCTGTGGG  
GAAATTTAGATACTTCGAGCTCAATAGGCCCTTTCCAGAGGAAGCTATTTTGCATGATATTCAAGCAATGTGAC  
TTTTCTTATTTTCCAAATACACTCACAGTATCAGAATACAACCTGTTTCCTTTTCTCCGACTCTCCTTTCCAATTC  
CTCGGAAACAGGCACTGCCAGTGGACTGGTTTTTCATCCTTAGACCAGAGCAGAGTACATGCACCTTGGTACTTGGG  
GACTTCAGGCATACAGCCTGTCCAGAATATGGCTATCCTACTCTCCTACTCAGAAAGAGATCCTGTCCCTGGAGG  
CTGTAATTTGGAGTTCGATTTAGATATTGATCCCCACATTACTTGGGAGTATAATTCCTTTGAAACGACTATCAA  
GTTTGCCCCAGCAAACCTAGGCTATGCGAGAGGCGTAGATCCCCACCATGTGACGCTGGGACAGACCAGGACTC  
CAGGTGGAGGTTGCAGTATGATGTCTATCAGTATTTTCTGCCTGAGAATGACCTCACTGAGGAGATGTTGCTGAA  
GCATCTGCAGAGGATGGTCAGTGTGCCCCAGGTGAAGGCCAGTGCTCTCAAGGTGGTTACCCTAACAGCTAATGA  
TAAGACAAGTGTTCCTTCTCCTCCCTCCCGGACAAGGTGTCATATACAATGTCATTGTTTGGGACCCGTTTCT  
AAATACATCTGCTGCCTACATTCTGCTCACACATACGCTTGCAGCTTTGAGGCAGGAGAGGGTAGTTGTGCTTC  
CCTAGGAAGAGTGTCTTCCAAAGTGTTCCTCACTCTTTTGGCCCTGCTTGGTTTCTTCATTTGTTTCTTTGGACA  
CAGATTCTGGAAAACAGAATTATTCTTCATAGGCTTTATCATCATGGGATTCTCTTTTATATACTGATTACAAG  
ACTGACACCTATCAAGTATGATGTGAATCTGATTCTGACAGCTGTCACTGGAAGCGTCGGTGGAAATGTTCTTGGT  
AGCTGTGTGGTGGCGATTGGAATCCTCTCGATCTGCATGCTCTGTGTTGGACTAGTGCTGGGGTTTCTCATCTC  
GTCAGTGACTTTCTTTACTCCACTGGGAAACCTAAAGATTTTTCATGATGATGGTGTATTCTGGGTCACTTTCTC  
TTGCATAGCTATCCTCATTCAGTAGTTTTTATGGGCTGCCTAAGAATACTGAACATACTGACTTGTGGAGTCAT  
TGGCTCCTATTTCGGTGGTTTTAGCCATTGACAGTTACTGGTCCACAAGCCTTTCCTACATCACTTTGAACGTACT  
CAAGAGAGCGCTCAACAAGGATTTCCACAGAGCTTTACAAATGTGCCTTTTCAAATAATGACTTCATTATCCT  
GGCAGTATGGGGCATGTGGCTGTAAAGTGGAAATTACGTTACAGATTGGAAGAGAGAGAGGACGACCGTTCTTCCC  
TCCCCACCCATACAAGTTATGGAAGCAAGAGAGAGAGCGCCGAGTGACAAACATTCTGGACCCTAGCTACCACAT  
TCCTCCATTGAGAGAGAGGCTCTATGGCCGATTAACCCAGATTAAAGGGCTCTTCCAGAAGGAGCAGCCAGCTGG  
AGAGAGAACGCCCTTTGCTTCTGTAGATGCCAGGGGCTTGGTCAGTGTGCCTCAGCTTTGGAGTTCATGCCTGGA  
GTGGTTCAACAGTCTCTGGTGCAAGTCTAATAAGAGATCAGGCATATATATCTGTTCTTTGCATAATATTATGGT  
GCCCTTATTGATATATGGTAAGGGTGTACTAGGGGATTAGGATGATTGTAAGAGAATGAGAAAGATGACCAAAAG  
GTTGGTGGTAGGGAGGCTTTTTCTTATTTCCAAATACTTGAGAAATTACCTTTTGGTTTACAAATCTATGATCAA  
CTTATTCCATTAAATAGATACATTAAAAAATTAAAAACTGATTCTTCTGCAGAGCACTGGTGTTCCTTTTATA  
ACCCCTTGAAACAAGTCTCTCACCTGAGCCTGTCTAACTTTTCGGAGGGAGTTTATTATTGAGTCTTTATCTGTG  
ACAGTATTTGGAGATTTAGGGATTTGATACTTAGGCCTTTGAATTTTAGAATACAAAAAGAGAAGCAAGCCAGAC  
ATGGTGGCTCACACCTGTAATCCCAATACTGGGAAGCCAAGGTGGGAGTATCGCTTGAGCCCAGGAGTTTGAGAC  
CGACATGGGCAACATGACAAGACCCCATCTCTACAAAAAATTAAAAAATTAGCCAGGCATGGTGGCACATGCCT  
ACTCCCAGCTCCCAAGGAGACTGAGATGGGAGGATCCCTGGAGCCCTGAAGATTGAGGCTACAGTGAGCCTTGAT  
TGTGTCACTGCACTCCAGCTTGGGTGACAGAGACCCTGTCTCGAGAAAT

3838/6881  
**FIGURE 3537**

MGFLQLLVAVLASEHRVAGAAEVFGNSSEGLIEFSVGKFRYFELNRPFEEAILHDISSNVTFILIFQIHSQYQN  
TTVSFSPTLLSNSSETGTASGLVFILRPEQSTCTWYLGTSIGQPVQNMAILLSYSERDPVPGGCNLEFDLDIDPN  
IYLEYNFFETTIFAPANLGYARGVDPPPCDAGTDQDSRWRLQYDVYQYFLPENDLTEEMLLKHLQRMVSV PQVK  
ASALKVVTLTANDKTSVSFSSLPQGVIYNVIVWDPFLNTSAAYIPAHTYACSFEEAGEGSCASLGRVSSKVFFTL  
FALLGFFICFFGHRFWKTEFFIGFIIMGFFFYILITRLTIKYDVNLILTAVTGSVGGMFLVAVWWRFGILSIC  
MLCVGLVLGFLISSVITFTPLGNLKIHFDDGVFWVTFSCIAILIPVVMGCLRILNILTICGVIGSYSVVLAI DSY  
WSTLSYITLNLVKRALNKDFHRAFTNVPFQTNDFIILAVWGMLAVSGITLQIRREGRPFPPHPYKLWKQERE  
RRVTNILDPSYHIPPLRERLYGRLTQIKGLFQKEQPAGERTPLLL

3839/6881  
**FIGURE 3538**

AGACTATCTTTCTAGACAAGGCAGTTGAGGAGGAGGGAGCGCTTGAGGGGGACTGGCCTGGCGTGCACTCCGCAC  
CTCGGGGACATTATTGCGCGTGGAACGGCTGCTTTTGAAGGCACAACCTTCTGAATGGACCATGACTCCCACCA  
AAGATCCCTGTCTCTGATTACCAAACAGCTTCAACCCTGAAACCAGGACGAGAAGTTGACAACATCTGAGTGGA  
CAGCTAATTGACCTAAGACTTCAGACCAGACTATTGCCCAGAAGAAAAGATGTTTGGTTTTACAAGCCAAAGAT  
GTACCGAAGTATAGAGGGCTGCTGTATTTGCAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTA  
TGAAAAGGACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTCCAGGAGACATCTGCAATGCCTGTGTCTCTGCT  
TGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAACTGGAATCATGTGGTAGATGCAAGGGCTGGACC  
CAGTCTAAAGACTACATTGAAACCAAAGAAAGTGAAGTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAG  
TAAACTGCAGAAGGAATTTAAACGTATAATTCTGATGCTCACAGTACCACCTCAAGTGCTCCCCAGCTCAATC  
TCCTTGTTACAGTAACCACTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCACTTTT  
TTCCTTTTTAGATCTCACTTACTGGAAGACAGAAGATATGTTGTGGGATCATCTATAAAGGCCGTTTTTGGGA  
AGTCCTCATTGACACACATCTCTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCTGAGAAGCCAGAGGAGCA  
GGGGCCAGAGCCTCTGCCCATCTCCACTCAGGAGTGGTGACTGAGGTTTTATGTAGAAGGGGAACAAAAA  
AATATCTGAATTTGAAAAACCACAAAGCTACAACTGACCCTCTTTTTTTTTTGAGACGGAGTTTTGCTCTTGT  
TACCCAGGCTGGAGTGCACTGGCGTGATCTTGGCTCACTGCAACTTCCGTCTCCCGGGTTCAAGTGATTCTCCTG  
CCTCAGCCTCCCAAGTAGCTGGGTTTATAGGTGCCGCCACCAGACCCGGCTAATTTTTTAGTTTTAGTAGAGAC  
GGGGTTTACCACGTTGGCCAGGCTGGTCTTAAATGACCCCTCTTATTTTAACTGGATACCTGCTATTCTGCCA  
AAAGACAATTTCTAGAGTAGTTTTGAATGGGTTGATTCCCCCACTCCCAAACTCTGAAGCCAGTGCTTAGCT  
TACTAAAAAAGAGTTGTATATAATTTAAGATGCTGAGTATTTTATAGGAAAGCTGAATGCTGCTGTAAAGTG  
CTCTTTAAGTCTTTTTTTTTTTAATCCCTTCTAATGAATGAACTAGGGGAATTTTACAGGGACAGAGATGGGA  
TTTGTGTATGATAAACTGTATGTAGTTTTTAGTCTTTCTGTTTTGAGAAGCAGTGGTTGGGGCATTTTTAAGAT  
GGCTGGCTACTCTTGTTTTCCCTCATGATAATAAATTTGTGATAACTCAGTAACATGAAGTTGCCCTAGAGGTA  
GTTGTTAATAATTTTGAAATATTAAGGTCTTGCCAAGCTTCTGATGATTACACCTGTACTACTGATTATTAAGC  
AGGACAGACTGAGCTTTCTGTTGCAATACCTTGAGGAGAGAAAGTAATTTCTAAATATACAGAGAGGTAACCTGA  
CTATATATGTTGCATCCTGTGCCTCCCTTCATATTAATTTTGATAAAGATTTTAATTTATGTAAACTTCTAAA  
GCAGAATCAAAGCTCCTCTTGGGGAAATGGCAAGTCTTTAGGATAGGCAAGACCCTGTATGAATAGTACCAAAGC  
ATTACCGCATGGTAGAGAACACACTCGATTAAAAATGTTAAGCTATCTGAAAAATAAATGTGCAAGTCTTCAGG  
ATGGCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATATAATCGA  
CTTTTGTGTGTTACATGACTTCTGTGACTTCATTGAAAATCTGCACAATTCAGTTTCAGCTCTGGATTACTTC  
AGTTGACCTTTGTGAAGGTTTTATCTGTGTAGAATGGGTGTTGACTTGTTTTAGCCTATTAAATTTTTATTTT  
CTTCTACTCTGTATTAAGGTAAGTAACTTACTAAAAGAAAAGAGGTTTGTGTTACATTAAATGGTTTTGGTTTG  
CTTCTTTTAGTCAGGCTTTCTGAACATTGAGATATCCTGAACCTTAGAGCTCTTCAATCCTAAGATTTTCATGAAA  
AGCCTCTCACTTGAACCCAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTTCAAGGAAAGCATTGCCAGTT  
CAGTCTTTTCAAAATGAGGGAGAAACATTTGCCTGCCTTGTAATAACAAGACTCAGTGCTTATTTTTTAACTGC  
ATTTTAAAAATGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTC  
TTAATCTAAACATTTTATATTTCTTCTTTTGGAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATA  
CAGTGAGTTGAGTTGGCTCTCCACAGTCTTTGAGGTGAATTACAAAAGTCCAGCCATTATCATCCTCCTGAGTT  
ATTTGAAATGATTTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCTA  
CTTCTGATTTTATTTATTTACTAGACCTCAACCACAGTCTTCTTTTTCCCTTCCACCTCTCTTGCCTGTA  
GGATGTACTGTATGTAGTCATGCACTTTGTATTAATATATTAGAAATCTACAGATCTGTTTTGTACTTTTTATAC  
TGTTGGATACTTATAATCAAACTTTTACTAGGATTTGAATAAATCTAGTCTTACTAGAAAAATAAA

3840/6881

**FIGURE 3539**

CTTTCCCAAGCGGCTGGCGAAGACGGCAGAGGTGCAGGTCTGGTGGCTTGATGGTCGAGGCCATCTCCTGGGCCG  
CCTGGCGGCCATCGTGGTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTTCGTACGCTGCGAAGGCATCAACATT  
TCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTCGCTTTCTCCGCAAGCGGATGAACACCAACTCTTACCGA  
GGCTCCTACCACTTCCGGGCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAGACCAAG  
CGAGGCCAGGCCGCTCTGGACCGCCTCAAGGTGTTTGATGGCATCCCACCGCCCTACGACAAGAAAAAGCGGATG  
GTGGTTCCTGTTGCCCTCAAGGTTGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCAC  
GAGTTTGGCTGGAAGTACCAGGCAGGGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTAC  
GGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACACA  
GAGGTCCTCAAGACCCACGGCCTCCTGATCTGAGCCCAATAAAGACTGTTAATTCCTCA

**FIGURE 3540A**

CTGAGGGGACCCGCCAGTTTCTAACTCAGTGGCGTTTGCCCTGATTCCCGGGGCGCTGGCTTTACGCGTAGCAATT  
CTGCCGGCGAAGAAGGTGAGCGCAGTGCTGTGTGGCAGCAGAGCTCCTTAGGACGAGGAGCAGCGGGACGAGGAA  
GGGCAGACTGGTGAAATCGCAAACCTGGGCGTCTGTTCCGGCGCCGACCCCTATTTGCAAAGGTCCATGGCTAAT  
GAAACACAGAAGGTTGGTGCCATCCATTTTCTTTTCCCTTCACACCCTATTCCATCCAGGAAGACTTCATGGCA  
GAGCTGTACCGGGTTTGGAGGCTGGCAAGATTGGGATATTGAGAGTCCAACCTGGCACTGGGAAGTCTTTAAGT  
CTTATTTGTGGGGCCCTCTCTTGGCTCCGTGACTTTGAACAGAAGAAGCGTGAAGAAGAGGGCACGACTCCTTGAA  
ACTGGAACCTGGCCCTTACATGATGAGAAAAGATGAATCCCTGTGTCTGTCTTCTTCTGCGAAGGGGCTGCAGGC  
ACCCCGAGGCCTGCTGGAGAACC GGCTGGGTTACTCAGTTTGTGCAGAAGAAAAGAAGAGAGGGACCTGGTGGAC  
CGACTAAAGGCGGAGCAGGCCAGGAGGAAGCAGCGAGAAGAAGCGCTGCAGCAGCTGCAGCACAGGGTGCAGCT  
AAGTATGCAGCCAAGCGCCTGAGGCAGGAAGAAGAAGAAAAGAGAGAATCTCTCCGCTCAGCAGGGAGATGCTA  
GAGACAGGCCCGGAGGCTGAGCGGCTGGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCTGCCGAATACGAG  
AGTGATGAGGAGAAAAAGGTGGCGAGCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAG  
ATTTATTACTGTAGTCGGACACACTCCAGCTGGCCAGTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAG  
GATGTTCCGGCTGGTCTCCCTTGGCTCCCGGCAGAACCTTTGTGTAATGAAGACGTGAAAAGCCTAGGTTCTGTG  
CAGCTTATCAACGACCGCTGTGTGGACATGCAGAGAAGCAGGCACGAGAAGAAGAAAGGAGCTGAGGAGGAGAAG  
CCAAAGAGGAGGAGGCAGGAGAAGCAGGCAGCCTGCCCTTCTACAACCACGAGCAGATGGGCCTTCTCCGGGAT  
GAGGCCCTGGCAGAGGTGAAGGACATGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGGCCTGTCCCTATTAC  
GGGAGCCGCTTGCCATCCCTGCAGCCAGCTGGTGGTGTGCCCTATCAGATGCTGCTGCATGCGGCCACTCGG  
CAGGCCCGGGCATCCGGCTGCAGGACCAGGTGGTGATCATCGACGAGGCGCACAACTGATCGACACCATCACG  
GGCATGCACAGCGTGGAGGTGAGCGGCTCCAGCTCTGCCAGGCCATTCCAGCTGCTGCAGTACGTGGAGCGA  
TACGGGAAGCGTTTGAAGGCCAAGAACCTGATGTACCTGAAGCAGATCCTGTATTGTCTGGAGAAATTCGTGGCT  
GTGCTAGGGGGGAACATTAAGCAAAATCCCAATACACAGAGTCTGTGCAGACAGGGACGGAGCTGAAGACCATC  
AACGACTTTCTCTTCCAGAGCCAGATCGACAACATCAACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATG  
ATCAGCAGAAAGCTCTTTGGATTCACTGAACGGTACGGAGCAGTGTTCTCATCCCGGAGCAGCCCAAACCTGGCT  
GGGTTTCAGCAATTCTTGAGAGCCTGCAGCCAGGACGACTGAAGCTCTTGACAGCCCTGCAGACGAGAGTCAG  
GCCAGCACCTTGCAGCCAGCTTCTCCACTGATGCACATCCAAGGCTTCTTGGCAGCTCTACTACGGCCAACAG  
GACGGCAGGGTATCCTTGAGCCGCCAAGGCAGCCTCAGTCAGAGCACCTGAAGTTTTGTCTCTGAATCCAGCT  
GTGCACTTTGCCCAAGTGGTGAAGGAATGCCGGGCAGTGGTCATTGCGGGGGGTACCATGCAGCCGGTGTCTGAC  
TTCCGGCAGCAGCTGCTGGCCCTGTGCCGGGGTGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTACGTGATC  
CCTCCAGACAACATCCTGCCCTCGTCTATCTGCAGCGGGATCTCCAACCAGCCGCTGGAATTCAGGTTCCAGAAA  
AGAGAGCTGCCTCAGATGATGGACGAGGTGGGTGCGATTCTCTGTAACCTGTGCGGTGTGGTTCTTGAGGGGTG  
GTCTGTTTTCTTCCCTCCTACGAGTACCTGCGCCAGGTCCATGCCACTGGGAGAAGGGTGGCTGCTGGGCCGT  
CTGGCTGCCAGGAAGAAGATATTCCAGGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTGGCATATTCC  
AGGTGCATCCAGGCTGTGGCCAGGAGAGAGGCCAGGTGACAGGGGCCCTGCTCCTCTCTGTGGTTGGAGGAAAG  
ATGAGTGAAGGGATCAACTTCTTGACAACCTAGGCCGTTGTGGTGATGGTGGGCATGCCCTTCCCCAACATC  
AGGTCTGCAGAGCTGCAGGAGAAGATGGCTACTTGGATCAAACCTCAGCCCCGGCCAGGCACCCCCAGGGAA  
GGCTCTGGTGGAGAACCTGTGCATGAAGGCCGTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAGAAGGATT  
TGCCAGCGTAGTGCTCTTGACCAGCGATATGCCCGGCCCTGTCTTGCCAAAGCTGCCCGGCTGGATCCGAGC  
CCGTGTGGAGGTCAAAGCTACCTTTGGCCCCGCCATTGCTGCTGTGCAGAAGTTTACCCGGGAGAAGTGGCCCTC  
TTCCTGATGGGCAACCACACCAGTCCCTGGCGCGTGCCTTCTTGTCTGCTGCCGCTGGAGACAGTGTTTGTG  
GTGGCGTGGTCTGCGGGGATCCTGTGTACAAGGTGAACCCAGGAGGAGTGTGGAGTCCAGAGTGCTGCCAG  
GACCCAGGCACAGGCGTTAGCTCCCGTAGGAGAAAATTGGGGAATCCTGAATGAACAGTGGGTCTGGCTGTCTCT  
TGGGGCGTTCCAGGCGAGCTCCCTCCTTGAATAGAATCTTTCTTCCATCCTGCATGGCTGAGAGCCAGGCTTC  
CTTCTGTGTCTCCGACAGGCTGTGGCAGCTGTGGCATCCACTGTGGCATCTCCGTCTGCCACCTTCTTAAAG  
AGGCGAGATGGAGCAGGCCCATCTGCCTCTGCCCTTTCTAGCCAAGGTTATAGCTGCCCTGGACTGCTCACTCTC  
TGGTCTCAATTTAAATGATCCATGGCCACAGGGCTCCTGCCAGGGGCTTGTACCTTCCCCTCTCTTCTCTG  
AGTCACTCCTTCAGTAGAAGGCCCTGCTCCCTATCCTGTCCACAGCCCTGCCTGGATTGTATCCTTGGCTTCG  
TGCCAGTTCTCCAAGTCTATGGCACCTCCTCCCTCTCAACCACTTGAGCAAACTCCAAGACACCTTCAACCC

3842/6881  
**FIGURE 3540B**

AACACCAGCAATTATGCCAAGGGCCGTTAGGCTCTCAACATGACTATAGAGACCCCGTGTTCATCACGGAGACCTT  
TGTTCCCTGTGGGAAAATATCCCTCCACCTGCAACAGCTGCCCCTGCTGACTGCGCCTGTCTTCTCCCTCTGACC  
CCAGAGAAAGGGGCTGTGGTCAGCTGGGATCTTCTGCCACCATCAGGGACAAACGGGGGCAGGAGGAAAGTCACT  
GATGCCCAGATGTTTGTCATCCTGCACAGCTATAGGTCCTTAAATAAAAGTGTGCTGTTGGTT

3843/6881  
**FIGURE 3541**

MANETQKVGAIHFPPFTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALSWLRDFEQKKREEEAR  
LLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAWVTQFVQKKEERDLVNRLKAEQARRQREERLQQLQHR  
VOLKYAAKRLRQEEEEERENLLRLSREMLETGPEAERPEQLESCEEELVLAYESDEEKKVASRVEDEDDDLEEEH  
ITKIYHCSRTHSQLAQFVHEVKKSPFGKDVRLVSLGSRQNLVCNEDVRSLSVQLINNRCVDMQSRHEKKKGAE  
EEKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARACPYYSRLAIPAAQLVVLPYQMLLHA  
ATRQAAGIRLQDQVVIIDEAHNLIDTTTSMHSVEVSGSQLCQAHSQLQYMERYGKRLKAKNLMYKQIILYLEK  
FVAVLGGNIKQNPNTQSLSQTMELKTINDFLFQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQP  
KLAGFQQFLQSLQPRTEALAAPADESQASVPQPASPLMHIEGFLAALTANQDGRVILSRQGSLSQSTLKFLLL  
NPAVHFAQVVKECRAVVIAGGTMQPVSNFRQQLACAGVEAERVVEFSCGHVIPPDNILPLVICSGVSNQPLEFT  
FQKRDLPQMMDEVGRILCNLCGVVSGGVVCFPPSYEYLRQVHAHWEKGGLLGRLAARKKIFQEPKSAHQVEQVLL  
AYSRCGQACGQERGPVTGALLSVVGGKMSEGINFSDNLGRCVVMVGMPFPNIRSAELQEKMAYLDQTLPRAPGQ  
AHPGKALVENLCMAVNQSIGRAIRHQKDFASIVLLDQRYARPLCWPSRPGSEPVWRSKLPLAPPLLLCRSFTG  
RSRPLPDGQPHHRPAPCPSFVLPSGDSVCRGRGLQGSCYKGETQEEVESRALPGPRHRR



3844/6881

**FIGURE 3542**

ATGAGTCTGACTTCCAGTTCAGCGGACGAGTTGAATGGATGGCAGCAGTTACCGTTGCTGCTGGGACAGCTGCA  
ATTGGTTATCTAGCTTACAAAAGATTTTATGTTAAAGATCATCGAAATAAAGCTGTGATAAACCTTCACATCCAG  
AAAGACAACCCCAAGACAGTACATGCTTTTGACATGGAGGATTTGGGAGATAATGCTGTGTACTGCCGTTTCTGG  
AGAGAGCCACGACCTGCCCCAGCTGTTGGAGAAGCTGAAAATAAAGGGAATCAACAATCAGCCAATCATCCAAGC  
CAGCAACCTGCTCGCTGTGGCTACCAGCCTCCCCACCACCTATTTACGTAGCCTCTATCCTCCTAAGGCTCCTTCA  
CAAGATGGCAGAGACCGAAGCAGGTCATTAAGTATCTGGCTGAACGATGGGTTAAGGCCAGAGTGGGCTTCAGAG  
CTGGGGCCACTATGA

3845/6881  
**FIGURE 3543**

CCTCCCCCTTTCCCAAGGACAATCTGCAAGAAAGCAGCGCGGAGGAGAGCTAAGACTAAAAGAGTGGATCATG  
ACCCATGAAGAGCACCATGCAGCCAAAACCTGGGGATTGGCAAAGCCATTGCTGTCTTAACCTCTGGTGGAGAT  
GCCCAAGGTATGAATGCTGCTGTCAGGGCTGTGGTTCGAGTTGGTATCTTCACCGGTGCCCCGTGTCTTCTTTGTC  
CATGAGGGTTATCAAGGCCTGGTGGATGGTGGAGATCACATCAAGGAAGCCACCTGGGAGAGCGTTTCGATGATG  
CTTCAGCTGGGAGGCACGGTGATTGGAAGTGCCCGGTGCAAGGACTTTCGGGAACGAGAAGGACGACTCCGAGCT  
GCCTACAACCTGGTGAAGCGTGGGATCACCAATCTCTGTGTTCATTGGGGGTGATGGCAGCCTCACTGGGGCTGAC  
ACCTTCCGTTCTGAGTGGAGTGACTTGTTGAGTGACCTCCAGAAAGCAGGTAAGATCACAGATGAGGAGGCTACG  
AAGTCCAGCTACCTGAACATTGTGGGCCTGGTTGGGTCAATTGACAATGACTTCTGTGGCACCAGATATGACCATT  
GGCACTGACTCTGCCCTGCATCGGATCATGGAAATTGTAGATGCCATCACTACCACTGCCCAGAGCCACCAGAGG  
ACATTTGTGTTAGAAGTAATGGGCCGCCACTGTGGATACCTGGCCCTTGTCACCTCTCTGTCTGTGGGGCCGAC  
TGGGTTTTTATTCTGAATGTCCACCAGATGACGACTGGGAGGAACACCTTTGTCCCGACTCAGCGAGACAAGG  
ACCCGTGGTTCTCGTCTCAACATCATCATTGTGGCTGAGGGTGCAATTGACAAGAATGGAAAACCAATCACCTCA  
GAAGACATCAAGAATGTTCTGATGAATGAAGCCAGAGAGGCCTTAGAATCCATAGCCCATTCCCTTCTGGCTTCT  
GAGTCTCCTGACATTGCTTCTCCCTTGGTCCTTCTGCACATCTCTCCCTGGTTCCCTGCCCCCTGATTGCCTCCC  
ACAAAGAACCATTACAAGACAAGAGGCTGAGCTGTCCATGGTTTACCCAAGTCTCTGCTTGTTTTCTTCCCTTTGA  
CTCTGCGTAACCCCTCTCTCTGTCCCTCTGTTGGTCCCTTCAGCTGGTGGTTAAGCGTCTGGGATATGACACCCGG  
GTTACTGTCTTGGGGCATGTGCAGAGGGGTGGGACGCCATCAGCCTTTGACAGAATTCTGGGCAGCAGGATGGGT  
GTGGAAGCAGTGATGGCACTTTGGAGGGGACCCAGATACCCAGCCTGTGTAGTGAGCCTCTCTGGTAACCAG  
GCTGTGCGCCTGCCCCCTCATGGAATGTGTCCAGGTG

3846/6881

**FIGURE 3544**

MTHEEHHAAKTLGIGKIAVLTSGGDAQGMNAAVRAVVRVGIFTGARVFFVHEGYQGLVDGGDHIKEATWESVSM  
MLQLGGTVIGSARCKDFREREGRRLRAAYNLVKGITNLCVIGDGS LTGADTFRSEWSDLLSDLQKAGKITDEEA  
TKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIMEIVDAITTTAQSHQRTFVLEVMGRHCGYLALVTSLS CGA  
DWVFIPECPPDDWEEHLCRRLSETRTRGSRLNIIIVAEGAIDKNGKPITSEDIKNVRMNEAREALESIAHSLLA  
SESPDIASPLGPSAHL SLVPCP

3847/6881  
**FIGURE 3545A**

ACGCAGAGCGCTGCTGGGCTGCCGGGTCTCCCGCTTCCCCCTCCTGCTCCAAGGGCCTCCTGCATGAGGGCGCGG  
TAGAGACCCGGACCCGCGCCGTGCTCCTGCCGTTTCGCTGCGCTCCGCCCGGGCCCGGCTCAGCCAGGCCCCGCG  
GTGAGCCATGATTCCGCTCGGGGCTCCCCAGACGCTGGTGCTGCTGACGCTGCTCGTCGCCGCTGCTCTCGGTG  
TCAGGGCCAGGATGTCCGGCAACCAGGACCAAGGGACAGAAAGGAGAACCTGGAGACATCAAGGATATTGTAGG  
ACCCAAAGGACCTCCTGGGCTCAGGGACCTGCAGGGGAACAAGGACCCAGAGGGGATCGTGGTGACAAAGGTGA  
AAAAGGTGCCCCCTGGACCTCGTGGCAGAGATGGAGAACCTGGGACCCCTGGAAATCCTGGCCCCCTGGTCTCC  
CGGCCCCCTGGTCCCCCTGGTCTTGGTGGAACTTTGCTGCCAGATGGCTGGAGGATTTGATGAAAAGGCTGG  
TGGCGCCAGTTGGGAGTAATGCAAGGACCAATGGGCCCCATGGGACCTCGAGGACCTCCAGGCCCTGCAGGTGC  
TCCTGGGCCTCAAGGATTTCAAGGCAATCCTGGTGAACCTGGTGAACCTGGTGTCTCTGGTCCCATGGGTCCCCG  
TGGTCTCCTGGTCCCCCTGGAAAGCCTGGTGATGATGGTGAAGCTGGAAAACCTGAAAAGCTGGTGAAGGGG  
TCCGCTGGTCTCAGGGTCTCGTGGTTTCCAGGAACCCAGGCCCTTCTGGTGTCAAAGGTACAGAGGTTA  
TCCAGGCCTGGACGGTGCTAAGGGAGAGGGCGGTGCTCCTGGTGTGAAGGGTGAGAGTGGTTCCCCGGGTGAGAA  
CGGATCTCCGGGCCCCAATGGGTCTCGTGGCTGCCTGGTGAAGAGGACGGACTGGCCCTGCTGGCGCTGCGGG  
TGCCCCGAGGCAACGATGGTCAGCCAGGCCCCGAGGGCCTCCGGGTCTGTGCTCCTGCTGGTGGTCTTGCTT  
CCCTGGTGTCTCCTGGAGCCAAGGGTGAAGCCGGCCCCACTGGTGGCCGTGGTCTGAAGGTGCTCAAGGTCTCTG  
CGGTGAACCTGGTACTCTGGGTCCCCCTGGGCCTGCTGGTGGCTCCGGTAACCTGGAACAGATGGAATTCCTGG  
AGCCAAAGGATCTGCTGGTGTCTCTGGCATTGCTGGTGTCTCTGGCTTCCCTGGGCCACGGGGCCCTCCTGGCCC  
TCAAGGTGCAACTGGTCTCTGGGCCCGAAAGGTGAGACGGGTGAACCTGGTATTGCTGGCTTCAAAGGTGAACA  
AGGCCCCAAGGGAGAACCTGGCCCTGCTGGCCCCAGGGAGCCCTGGACCCGCTGGTGAAGAAGGCAAGAGAGG  
TGCCCCGTGGAGAGCCTGGTGGCGTTGGGCCCATCGGTCCCCCTGGAGAAAGAGGTGCTCCCGGCAACCGCGGTTT  
CCCAGGTCAAGATGGTCTGGCAGGTCCCAAGGGAGCCCCCTGGAGAGCGAGGGCCAGTGGTCTTGCTGGCCCCAA  
GGGAGCCAACGGTGACCTGGCCGTCTGGAGAACCTGGCCTTCTGGAGCCCGGGGTCTCACTGGCCGCCCTGG  
TGATGTGGTCTCAAGGCAAGTTGGCCCTTCTGGAGCCCTGGTGAAGATGGTCTGCTGGACCTCCAGGTCC  
TCAGGGGGCTCGTGGGCAGCCTGGTGTCTATGGGTTTCCCTGGCCCCAAAGGTGCCAACGGTGAGCCTGGCAAAGC  
TGGTGAGAAGGGACTGCCTGGTGTCTCTGGTCTGAGGGGTCTTCTGGCAAAGATGGTGAGACAGGTGCTGCAGG  
ACCCCTGGCCCTGCTGGACCTGCTGGTGAACGAGGCGAGCAGGGTGTCTCTGGGCCATCTGGGTTCAGGGGACT  
TCCTGGCCCTCCTGGTCCCCCAGGTGAAGGTGGAAAACAGGTGACCAGGGTGTTCCTGGTGAAGCTGGAGCCCC  
TGGCCTCGTGGGTCCCAGGGGTGAACGAGGTTTCCAGGTGAACGTGGCTCTCCCGGTGCCCAGGGCCTCCAGGG  
TCCCGTGGCCTCCCGGCACTCCTGGCACTGATGGTCCCAAAGGTGCATCTGGCCCAGCAGGCCCCCTGGGGC  
TCAGGGCCCTCCAGGTCTCAGGGAATGCCGAGAGGGGAGCAGCTGGTATCGCTGGGCCCAAAGGCGACAG  
GGGTGACGTTGGTGAGAAAGGCCCTGAGGGAGCCCTGGAAAGGATGGTGGACGAGGCCTGACAGGTCCCATTTG  
CCCCCTGGCCCAGCTGGTGTCTAATGGCGAGAAGGGAGAAGTTGGACCTCCTGGTCTGTCAGGAAGTGTGGTGC  
TCGTGGCGCTCCGGGTGAACGTGGAGAGACTGGGCCCCCGGACCAGCGGGATTTGCTGGGCCTCCTGGTGTGA  
TGGCCAGCCTGGGGCCAAGGGTGAGCAAGGAGAGGCCGCGCCAGAAAGGCGATGCTGGTGGCCCTGGTCTCAGGG  
CCCCCTGAGACCTGGGCCTCAGGGTCTACTGGAGTGACTGGTCTTAAAGGAGCCCGAGGTGCCAAGGCC  
CCCGGAGCCACTGGATTCCCTGGAGCTGCTGGCCGCTGGACCCCCAGGCTCCAATGGCAACCTGGACCCCC  
TGGTCCCCCTGGTCTTCTGGAAAAGATGGTCCCAAAGGTGCTCGAGGAGACAGCGCCCCCTGGCCGAGCTGG  
TGAACCCGGCCTCCAAGGTCTGCTGGACCCCTGGCGAGAAGGGAGAGCCTGGAGATGACGGTCCCTCTGGTGC  
CGAAGGTCCACAGGTCCCCAGGGTCTGGCTGGTTCAGAGAGGCATCGTGGTCTGCCTGGGCAACGTGGTGAGAG  
AGGATTCCTGGCTTGCTGGCCCGTGGGTGAGCCCGGAAGCAGGGTGTCTCTGGAGCATCTGGAGACAGAGG  
TCCTCTGGCCCCGTGGGTCTCTGGCCTGACGGGTCTGCAAGGTGAACCTGGACGAGAGGGAAGCCCCGGTGC  
TGATGGCCCCCTGGCAGAGATGGCGCTGCTGGAGTCAAGGGTGATCGTGGTGAGACTGGTGTCTGTGGAGCTCC  
TGGAGCCCCTGGGCCCTGGCTCCCCCTGGCCCCGCTGGTCCAACCTGGCAAGCAAGGAGACAGAGGAGAAGCTGG  
TGCACAAGGCCCATGGGACCCCTCAGGACCAGCTGGAGCCCGGGGAATCCAGGGTCTCAAGGCCCCAGAGGTGA  
CAAAGGAGAGGCTGGAGAGCCTGGCGAGAGAGGCCTGAAGGGACACCGTGGCTTCACTGGTCTGCAGGCTCTGCC  
CGGCCCTCCTGGTCTTCTGGAGACCAAGGTGCTTCTGGTCTGCTGGTCTTCTGGCCCTAGAGGTCTCTGG  
CCCCGTGGTCTCTGTCGCAAGATGGTGTCTAATGGAATCCTGGCCCCATTGGGCCTCCTGGTCCCCGTGGACG  
ATCAGGCGAAACCGGCCCTGCTGGTCTCTGGAATCCTGGACCCCTGGTCTCCAGGTCCCCCTGGCCCTGG

3848/6881

**FIGURE 3545B**

CATCGACATGTCCGCCTTTGCTGGCTTAGGCCCGAGAGAGAAGGGCCCCGACCCCTGCAGTACATGCGGGCCGA  
CCAGGCAGCCGGTGGCCTGAGACAGCATGACGCCGAGGTGGATGCCACACTCAAGTCCCTCAACAACCAGATTGA  
GAGCATCCGAGCCCCGAGGGCTCCCGCAAGAACCCTGCTCGCACCTGCAGAGACCTGAAACTCTGCCACCCTGA  
GTGGAAGAGTGGAGACTACTGGATTGACCCCAACCAAGGCTGCACCTTGGACGCCATGAAGGTTTTCTGCAACAT  
GGAGACTGGCGAGACTTGCCTCTACCCCAATCCAGCAAACGTTCCCAAGAAGAAGTGGTGGAGCAGCAAGAGCAA  
GGAGAAGAAACACATCTGGTTTGGAGAAACCATCAATGGTGGCTTCCATTTTCAGCTATGGAGATGACAATCTGGC  
TCCCAACACTGCCAACGTCCAGATGACCTTCCTACGCCTGCTGTCCACGGAAGGCTCCCAGAACATCACCTACCA  
CTGCAAGAACAGCATTGCCTATCTGGACGAAGCAGCTGGCAACCTCAAGAAGGCCCTGCTCATCCAGGGCTCCAA  
TGACGTGGAGATCCGGGCAGAGGGCAATAGCAGGTTACGTACACTGCCCTGAAGGATGGCTGCACGAAACATAC  
CGGTAAGTGGGGCAAGACTGTTATCGAGTACCGGTCACAGAAGACCTCACGCCTCCCCATCATTGACATTGCACC  
CATGGACATAGGAGGGCCCCGAGCAGGAATTCGGTGTGGACATAGGGCCGGTCTGCTTCTTGTA AAAACCTGAACC  
CAGAAACAACACAATCCGTTGCAAACCCAAAGGACCCAAAGTACTTTCCAATCTCAGTCACTCTAGGACTCTGCAC  
TGAATGGCTGACCTGACCTGATGTCCATTATCCACCCCTCTCACAGTTCGGACTTTTCTCCCTCTCTTTCTAA  
GAGACCTGAACTGGGCAGACTGCAAAATAAAATCTCGGTGTTCTATTTATTTATTGTCTTCCTGTAAGACCTTCG  
GGTCAAGGCAGAGGCAGGAAACTAACTGGTGTGAGTCAAATGCCCCCTGAGTGACTGCCCCCAGCCCAGGCCAGA  
AGACCTCCCTTCAGGTGCCGGGCGCAGGAAGTGTGTGTCTTACACAATGGTGCTATTCTGTGTCAAACACCTC  
TGTATTTTTTAAACATCAATTGATATTAAAAATGAAAAGATTATTGGAAAGT

3849/6881  
**FIGURE 3546**

ATGAGCCACCACCCGTCGGGCCTCCGGGCCGGCTTCAGCTCCACCTCATAACGCCGTACCTTCGGTCCACCGCCC  
TCACTATCCCCGGGGCCTTCTCCTACTCGTCCAGCTCCCGCTTCTCCAGCAGCCGCCTGCTGGGCTCCGCGTCC  
CCGAGCTCCTCGGTGCGCCTGGGCAGCTTCCGTAGCCCCGAGCGGGAGCGGGCGCCCTCCTGCGCCTGCCCTCG  
GAGCGCCTCGACTTCTCCATGGCCGAGGCCCTCAACCAGGAGTTCTTGGCCACGCGCAGCAACGAGAAGCAGGAG  
CTGCAGGAGCTCAACGACCGCTTCGCCAACTTCATCGAGAAGGTACGCTTTCTGGAGCAGCAGAACGCGGCCCTG  
CGCGGGGAGCTGAGCCAAGCCCCGGGGCCAGGAGCCGGCGCGCGCCGACCAGCTGTGCCAGCAGGAGCTGCCGAG  
CTGCGGCGAGAGCTGGAGCTGTTGGGCCGCGAGCGTGACCGGGTGCAGGTGGAGCGCGACGGGCTGGCGGAGGAC  
CTGGCGGCGCTCAAGCAGAGGTTGGAGGAGGAGACCGCAAGCGGGAGGACGCGGAGCACAACCTCGTGCTCTTC  
CGCAAGGACGTGGACGATGCCACTCTGTCCCGCCTGGAAGTAGAGCGCAAGATTGAGTCTCTGATGGATGAGATT  
GAGTTCCTCAAGAAGCTGCACGAGGAGGAGCTGCGAGACCTGCAGGTGAGTGTGGAGAGCCAGCAGGTGCAGCAG  
GTGGAGGTGGAAGCCACGGTGAAGCCCGAGCTGACGGCAGCGCTGAGGGACATCCGCGCGCAGTACGAGAGCATC  
GCCGCGAAGAACCTGCAGGAGGCGGAGGAGTGGTACAAGTCCAAGTACGCGGACCTGTCCGACGCTGCCAACCGG  
AACCACGAGGCCCTGCGCCAGGCCAAGCAGGAGATGAACGAGTCCCGACGCCAGATCCAGAGTCTAACGTGCGAG  
GTGGACGGGCTGCGCGGCACGAACGAGGCGCTGCTCAGGCAGTTGAGAGAGCTGGAGGAGCAGTTCGCCCTGGAG  
GCGGGGGGCTACCAGGCGGGCGCTGCGCGGCTCGAGGAGGAGCTGCGACAGCTAAAAGAGGAGATGGCGCGGCAC  
CTGAGGGAGTACCAGGAGCTCCTCAACGTCAAGATGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTG  
GAGGGCGAGGAGAGCCGGATCTCCGTGCCCGTCCATTCTTTGCCTCCTTAAATATAAAGACGACTGTGCCCTGAG  
GTGGAGCCTCCCCAGGACAGCCACAGCCGGAAGACGGTCTGATCAAGACCATTGAGACCCGGAATGGGGAGGTG  
GTGACAGAGTCCCAAGGAGCAGCGCAGTGAGCTGGACAAGTCTTCTGCCCACAGTTACTGAACCCCTTGGTCC  
GGAGCCTTGACTCTGCCCTAGGCCTGCTCAAAGCCCCAAACCCTAAGACCACTCCTGAATTGTCTCCTCTCCCTCT  
GCATGTGTCTAAAAGGTGGTACCAGGCATCCCTTTCTGGCTTATGGCCAAGCCCTACCCGGCCAGCAGTCGCTG  
GCCTCTCCCTGCCCTGACACTTGATGTGACCTATGTGCTTCCCTTTTCATGTCCCGATAAGAAGCCAATGATCCC  
CCCTCAGGACAAATCTACTCCAGCCACGATGAGAAGTGGGTGAGCCAGGGTCTGAGTTTCACATTTGAACCAAAT  
AAAATGCTGTCAAGAGAAAAAA

3850/6881

**FIGURE 3547**

MSHHPSGLRAGFSSTSYRRTFGPPPSLSPGAFSYSSSSRFSSSRLLGSASPSSSVRLGSFRSPRAGAGALLRLPS  
ERLDFSMAEALNQEFLATRSNEKQELQELNDRFANFIEKVRFLEQQNAALRGELSQARGQEPARADQLCQQELRE  
LRRELELLGRERDRVQVERDGLAEDLAALKQRLEEETRKREDAEHNLVLFKRDVDDATLSRLELERKIESLMDEI  
EFLKKLHEEELRDLQVSVESQQVQQVEVEATVKPELTAALRDIRAQYESIAAKNLQEAEWYKSKYADLSDAANR  
NHEALRQAKQEMNESRRQIQSLTCEVDGLRGTNEALLRQLRELEEQFALEAGGYQAGAARLEEELRQLKEEMARH  
LREYQELLNVKMALDIEIATYRKLEGEESRISVPVHSFASLNIKTTVPEVEPPQDSHSRKTVLIKTIETRNGEV  
VTESQKEQRSELDKSSAHSY

3851/6881  
**FIGURE 3548**

GTTTCTGTGCGCAGGCTGCGAGGAAAGGCCCTAGGCTGGGTCTGGGTGCTTGGCGGCGGGGCTTCCTCCCCGCT  
CGTCCTCCCCGGGCCCAGAGGCACCTCGGCTTCAGTCATGCTGAGCAGAGTATGGAAGCACCTGACTACGAAGTG  
CTATCCGTGCGAGAACAGCTATTCCACGAGAGGATCCGCGAGTGTATTATATCAACACTTCTGTTTGAACACTG  
TACATCCTCTGCCACATCTTCCTGACCCGCTTCAAGAAGCCTGCTGAGTTCACCACAGTTTCATCCTACAAAATG  
GGCGTAACAATGTCTACCTACTCCATTGTGTGGACAAAGGAGATGGTTAATGTGAAAGCCCTTTGTGAACCTGA  
AGTGAGCAACTGCTGGATGAATGTCATTACGGGCACAGGCTCTGTGTATCTCCTCTCCTAGTGCTTCCACAGCC  
AGGACCAGAGACCTCCCTGATGACTGGGGAACCTGTGGATGATGAAGATGCCACCGTCAACAAGATTGCGCTCGA  
GCTGTGCACCTTTACCCTGGCAATTGCCCTGGGTGCTGTCTGCTCCTGCCCTTCTCCATCATCAGCAATGAGGT  
GCTGCTCTCCCTGCCTCGGAATACTACATCCAGTGGCTCAACGGCTCCCTCATCCATGGCCTCTGGAACCTTGT  
TTTTCTCTTCTCCAACCTGTCCCTCATCTTCCTCATGCCCTTTGCATATTTCTTCACTGAGTCTGAGGGCTTTGC  
TGGCTCCAGAAAGGGTGTCTGGGCCGGGTCTATGAGACAGTGGTGACGTTGATGCTCCTCACTGCTGCTGGTGCT  
AGGTATGGTGTGGGTGGCATCAGCCATTGTGGACAAGAACAAGGCCAACAGAGAGTCACTCTATGACTTTTGGGA  
GTACTATCTCCCTACCTCTACTCATGCATCTCCTTCCCTTGGGGTTCTGCTGCTCCTGGTGTGTACTCCACTGGG  
TCTCGCCCGCATGTTCTCCGTCACTGGGAAGCTGCTAGTCAAGCCCCGGCTGCTGGAAGACCTGGAGGAGCAGCT  
GTACTGCTCAGCCTTTGAGGAGGCAGCCCTGACCCGCAGGATCTGTAATCCTACTTCTGCTGGCTGCCTTTAGA  
CATGGAGCTGCTACACAGACAGGTCTGGCTCTGCAGACACAGAGGGTCTGCTGGAGAAGAGGCCGAAGGCTTC  
AGCCTGGCAACGGAACCTGGGTACCCCTGGCTATGCTGTGCTTGCTGGTGCTGACGGGCCTGTCTGTGCTCAT  
TGTGGCCATCCACATCCTGGAGCTGCTCATCGATGAGGCTGCCATGCCCGAGTCATGCAGGGTACCTCCTTAGG  
CCAGGTCTCCTTCTCCAAGCTGGGCTCCTTTGGTGCCGTATTCAAGTTGTACTCATCTTTTACCTAATGGTGTCT  
CTCAGTTGTGGGCTTCTATAGCTCTCCACTCTTCCGGAGCCTGCGGCCAGATGGCACGACACTGCCATGACGCA  
GATAATTGGGAACCTGTGTCTGTCTCCTGGTCTTAAGCTCAGCACTTCTGTCTTCTCTCGAACCCTGGGGCTCAC  
TCGCTTTGACCTGCTGGGTGACTTTGGACGCTTCAACTGGCTGGGCAATTTCTACATTGTGTTCTCTACAACGC  
AGCCTTTGCAGGCCTCACCACACTCTGTCTGGTGAAGACCTTCACTGCAGCTGTGCGGGCAGAGCTGATCCGGGC  
CTTTGGGCTGGACAGACTGCCGCTGCCCGTCTCCGGTTTCCCCAGGCATCTAGGAAGACCCAGCACCAGTGAAC  
TCCAGCTGGGGGTGGGAAGGAAAACTGGACACTGCCATCTGCTGCCTAGGCCTGGAGGGAAGCCCAAGGCTAC  
TTGGACCTCAGGACCTGGAATCTGAGAGGGTGGGTGGCAGAGGGGAGCAGAGCCATCTGCACTATTGCATAATCT  
GAGCCAGAGTTTGGGACCAGGACCTCCTGCTTTTCCATACTTAACTGTGGCCTCAGCATGGGGTAGGGCTGGGTG  
ACTGGGTCTAGCCCTGATCCCAATCTGTTTACACATCAATCTGCCTCACTGCTGTTCTGGGCCATCCCATAG  
CCATGTTTACATGATTTGATGTGCAATAGGGTGGGTAGGGGCAGGGAAGGACTGGGCCAGGGCAGGCTCGGGA  
GATAGATTGTCTCCCTTGCTCTGGCCAGCAGAGCCTAAGCACTGTGCTATCCTGGAGGGGCTTTGGACCACCT  
GAAAGACCAAGGGGATAGGGAGGAGGAGGCTTCAGCCATCAGCAATAAAGTTGATCCAGGGTTTGCTTTGTTTT  
TTT



3852/6881

**FIGURE 3549**

MVNVKALCEPEVSNWMMNVITGTGSVSSPLLVLPPQPGPETSMTGEPVDDDATVNKIALELCTFTLAIALGAVL  
LLPFSIISNEVLLSLPRNYIIQWLNGSLIHGLWNLVFLFSNLSLIFLMPFAYFFTESEGFAGSRKGVLRVYETV  
VTLMLLTLLVLGMVWVASAIVDKNKANRESLYDFWEYYLPYLYSCISFLGVLLLLVCTPLGLARMFSVTGKLLVK  
PRLLLEDLEEQLYCSAFEEAALTRRICNPTSCWLPDMELLHRQVLALQTRVLLLEKRRKASAWQRNLGYPLAMLC  
LLVLTGLSVLIVAIHILELLIDEAAMPVVMQGTSLGQVSFSKLGSGFAGVIVVLIIFYLMVSSVVGFYSSPLFRSL  
RPRWHDAMTQIIIGNCVCLLVLSALPVFSRTLGLTRFDLLGDFGRFNWLGNFYIVFLYNAAFAGLTTCLVKTF  
TAAVRAELIRAFGLDRLPLPVSGFPQASRKTQHQ

3853/6881  
**FIGURE 3550**

GGAGGTGGGAAGTATCCCGGGCTGGGGGTGGGGGTACGCCGCACAGCTCCAGTCGCCGTGCGGGCTTCCGGTGCT  
AGGTGGAGGGAAGGAAGGAGGGAGCCGGGGAGTGGGCCAGGGCAGCAGCCGGGCTGAAGTCGGCTTGGGGAGCCA  
GAGGGAGCGGAGCGGAACCTGCGGGGCAGAGCGGCGGCCGACGCGGCGCAGCTGATAGCAGGAACAGGATCAAG  
TCTTCCATACCAGGGACCAGGCCAAAACCAGACTGCCACTGCCCTACTTGGGCCCCACTGTCCCCAGAAAGCAG  
CTGCTGTGATCATGGGCAATATCTTTGGAAACCTTCTCAAGAGCCTGATTGGGAAGAAGGAGATGCGCATCCTGA  
TGGTGGGCCTGGATGCCGCAGGAAAGACCACCATCCTATACAAGCTGAAACTGGGGGAGATCGTCACCACCATCC  
CTACCATTGGGTTCAATGTGGAGACAGTGGAGTATAAGAACATCAGCTTTACAGTGTGGGATGTGGGTGGCCAGG  
ACAAGATTCGACCCCTCTGGAGACACTACTTCCAGAACACCCAAGGGTTGATATTTGTGGTCGACAGCAATGATC  
GGGAGCGAGTAAATGAGGCCCGGGAAGAGCTGATGAGAATGCTGGCGGAGGACGAGCTCCGGGATGCTGTACTCC  
TTGTCTTTGCAAACAAACAGGATCTGCCTAATGCTATGAACGCTGCTGAGATCACAGACAAGCTGGGCCTGCATT  
CCCTTCGTACCGTAACCTGGTACATTACAGCCACCTGTGCCACCAGCGGGGACGGGCTGTACGAAGCCCTGGACT  
GGCTGGCCAATCAGCTCAAAAACAAGAAGTGAAGCCAGACAGCCCTAACAAAGCACCCACCCACCCCTGACAT  
ACCTACTGTACCCCTGCCCCAGTCTACCCCTTCTCTCCATGCAAGTGTGGCCAGGGCCCTGGGTATCATGTCC  
ACATGCCCAGCAAGAGCCTTGCCCTCCCCTGCCCTCCCCTCCTTTTCTGTCCACCTATATGACCAATCCCTAATT  
GCTGTCTCTGATGATGAGTCAATTTACTGGATTTAAACAAAAAGTTGTTACGGTTTCATGGGGTGGCCCC  
TCTCTCTCTCTACCTCTGGGTTTCGGGAGGTCGAGTGGGGTATTCTCTTTGTTTGGCAGTGGTTGCTGTCCCTCT  
TGGCATCTGAGTCCTTTCCCTGTCCCCACAAGCCCTTCTACTCCCTGTTTGCCTTTCCTTTGCCACCCCTCTCCCT  
GTTTTACATGGAAATTGCACGGGCCTCTCTGTGTTTGCCTGATGTGTGCGCCTGTATATACATGTATAGAGAGA  
TATATTTGTGGGGGGCGGGGGGAGCGGGGAGGGGGTGGAGTGAAGCTCAGGGCTTGACGCCAGGACACTGCCCCAC  
TGGAGCCTGTCTATCTGCCCCCTCCGTGTTGGTGAGATTAAGGGAAGAAGGTGGGAGGGCATTAGTCAAGCCGGAC  
TGCCCCAGTCTTTGACTGGTTACCCTCCTCTCTGCAGGTAGGTTTTTCTGGATGATAGGACAGATGATGGATTCT  
TCACCACCATTTTCTTGTACTCTTCTCTCCACCCTTCTTAGGGCTGGAGGATGGCATTATCTCTAGATGACTG  
TTCCCAAGGAGATGCCACTCTGCTCTGCCTTACTGTTGGGAAGGAGAGAGGAACCCACTCACTCTTATCAGCTTA  
GAGTGTTCAACTGATCCTTCCCCACCATCTTCAGATCTGTTCCCTCTGGAGCTTGACTGGGGGGTGGGGATGGCAA  
GTCCATGGTGTGTGTTAGGGACCCAGGGCATTGGGGGAAGGGAGGCGAAGGCCTGAGGTTTTCCATCTTCATTCT  
CTTTTGTATTAGGAGAAGGTGAGGCATGGGCCAATCCATTCCCTGCCTTCCAGTGCCCCACCACCCTTCTGATC  
TTAGGGGTGGATGGGTCACTGTCTTGGTCAGAATTTTCTACCCCTAGTACTCTACTGGCCTGACCAGGGCT  
GACTGGGTATTCTAATGAGGAGCTGGGAAGTGGGGTGACATAGCTGACCTTAGTATCAACCCCTCTTCTCCAA  
CTCTTGTTTTCTAGTCCAGGATATGCTAAAGGACGAAGATTTTCTATTGTTTCCAGGCCCTCAGACCATCCTTGC  
TGTCCTTTCACCTCCATGCCCTGCCATCCTCACTCACTTCTCATAAATGGATCTGGGGGTAGAGTGGAGGAA  
ATAAAATCCTGAAGTGGTTGTCTAGTGTCTTGTGGGATGCAGTGGTCTTCAGGATTCTCCCCGCATTATTATGTAGT  
TGTTGAGAAGCTGTTGTACTGCGTCTCTGTCTGCAGGGGGCACTTGTTCCTGAGGTCTCGCCTGGGTCTCTG  
ACTTCTGTAGTTTCTGTGAAGACGTGGCTGTCTGTGGGCTCCTGTGTGTGTGCTGCGCTGAGCTCCGAGAC  
AGCTGCCCATAACTGCTAAGGTGAGGGCCAGGGCCCCCACAGCATGGCTGAGGGACCCCTTCCAGTAGGGC  
TGTCCTCAAGCCCCACTCCATGGGGCCAGGTTTCTGGCCACTTTTGTGATAGCAGATGGATCAATATTAGTAAC  
CCCATCCAAGATTGAACTGTGAAAGAGAGGTTCCAGGGGTATCTCCCTCAGTGCCAGTTACTTAGTGATGTGTTA  
CCCAGGATGCAGCAGGTGTGTGCAGGTATCTTGCTCTCTAGGCCTGTGTGTGTGTGTGAGTGTGTGTATATGG  
GTGTGGGTGTGTTTGTGTGTGGTGGTTGTGGGGGGGGTGTGGAGGTTCTATTTCAATTAATAATGTATTCATTT  
CCCTGGCCCCACAGATGCTTCCCTCCATACTTTTTATTTGCTCTGTTTCCCTCAGATTTATTTTGTCTTGCCCCAT  
TGCCCTCCTTCTTGAACCTTTTCTTTTCAATCTCAACTCATTCACTGCTGTTGCTCATTGCCCCCTTTCCAT  
GTATTTTCTCTACTTAGGATTTTCCACTCTATCTTTGTGGTTCATGAGGACTTTGCCTCTTCTCCTGCCTCATT  
CCCTGACTTTCTCTAGTTAGATGTCAGTCTAAATAGGTTTTCTCACTTCAGGCCTCACCCCTCACCTTGTTTT  
TTTGGGGGCTCCAGGGACCAATCTGGGGCTGGAATGTTAGGAGGTTGCCTTGGTGTCTGCCCCAGATCTGTCCAG  
CAGGGGGCAGTAAGTGATCTTGGTAGTATCCCTGGCTGCTAAGCCCTTGGCAGGGGTGGTCCTTCTACATTCCC  
ATTCACCTAACAGCTCTTTGGGATTGGGTGTTTCATTCCATTTCTGCCCCACTCCCTCTCCTCTCCTCTCTGGTA  
GGTTAATTTTATGCTTTCCCTGATTCCAGCTTTCTGCTTCTGAGGACTCCCGCTCCCCCACCACCAAGTTTG  
TCGTGGTGTATAGTGGTAACAGTTCCTCCTCTGGAATGTAGACTGTATATGTTTAATAACTCACCTTCTC  
TATCCTTGCTCAAAATGTGGGATAACCGGATGACTGTGACCCTGGTTGGAAATTAACCTTGTTTATGCA

3854/6881  
**FIGURE 3551**

MGNIFGNLLKSLIGKKEMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR  
PLWRHYFQNTQGLIFVVDSDNDRERVNEAREELMRMLAEDEL RDAVLLVFANKQDLPNAMNAAEITDKLGLHSLRH  
RNWYIQATCATSGDGLYEGLDWLANQLKNKK

3855/6881  
**FIGURE 3552**

AGTGGCGCGCAGCGCAGCTCCTGAGGTTTTGGTTATGAACAGGATTCCGGATTACGTCTTGCCAACCAATCGGGG  
GAGGATCACTCCAGTGCCAGGTCTCAGGAACCTCTGTCTTGTGCATTCACTCATCGTCCATGCTCTCACCCTCG  
TCTGGAGGGGCAGGAGTTTTGCATTAAGCATATCCTTGAAGACAAGAATGCACCCTTCAAGCAGTGTAGTTATAT  
ATCGACGAAGAATGAAAAAGATGTCCCAATGCTGCCCCAAAGCCAGAGAAGAAAGATGGGGTGTCTTCTGTGC  
TGAACATGTCCGTAGGAATGCCCTGGCACTTCATGCTCAAATGAAGAAGACCAACCTAGGGCCTGTGGGTGAAAC  
ACTCCTGTGCCAGCTGAGCTCATATGCTAAGACAGAGCTGGGGTCTCAGACTCCAGAAAGTAGTCGCAGTGAAGC  
CAGCCGAATACTAGACATGCTGGTGTCTACACAGCAGAAGAAGTGGCCCTGATTATGCGTGAAAAGCTAATTCGT  
TTGCAGTCGTTGTATATTGATCAGTTTAAACGACTTCAGCATCTGCTCAAGGAGAAGAAGCGCCGATACTTACAT  
AATCGCAAAGTGGAACATGAAGCTCTAGGCAGTAGTCTCTGACTGGCCAGAGGGACTTTTGGCCAAAGAACGA  
GAGAACTTAAAGCGATTAAATGTCTGCGACGATACCGCCAGCGCTATGGAGTGGAAGCCTTACTGCATAGGCAG  
TTGAAGGAACGGAGAATGCTGGCCACAGATGGTGTGCCCAACAGGCCCATACCACTCGTTCCAGTCAGAGGTGC  
TTGGCCTTTGTGGATGATGTTTCGTTGTTCGAATCAGTCTCTTCCAATGACCAGACACTGCCTTACCCAGAAAGAT  
GCGACTGCCATTGGTGACCTGTTAACTCTTTACTGTGGTCTAATGGAGACAGCACTCGACTGAAAGTGAAGGACC  
CAGACTCTAGTTGACTTGGATGTTGTGGGTGATGGTATGCAGTGTCTCCTTCACCTTTGCTTTTGTATCCTTCA  
CTAACCTTGAAGATCATTTAGTCAAAGAAATTGCTGAAGACACAGTGGATATTTTGGGCCAGATGCAGATGGCT  
GGAGATGGGTGCAGATCCCAGGGATCTCGAAATTCTGAGAAAGCCTCTGCACCAATTGTCTCAGAGTGGATTGGCT  
ACTGCAAATGGGAAGCCAGAACCCACTTCTATTAGTTGATAGTTTGGGAACCATTTTACTTTGGTGGATTTAAA  
TTTCTCGTTCTTCAAAGAAGTATTTCTGATCATCTCTCACAAAACACAGGCAACCCAGACTACCTTGTTTTCTT  
CTGGATTGAGTATTATAGTCAAACGTAAAGCCAAATTTGAGGACGTGGACCGTGGGTTTCTTCCCACTCAGGGC  
AAGGAAGAGAAAAGAGAGATAATCCCTATCAAAGCTTCTGGGATCATTGAGGACTATACCTAAAAGGAAAGTGACA  
TCTTTGTAATGGGATTTCCCAAGTCATGGATAGAAATCCACTTAAGTAGCTAGGTGGGAGCTGTCTTTGTGAGTG  
GTGTCTTTGAGATACTGATGGCCCTAATATCGGTTATCTCTATCTGAAGACCTGCAGTTTAGCTTTTCTTCACCT  
CTACTTAATTGGGCAGTCTTTAACCCCTTTCCCTGGTGAACCTCTGGCTTTTATCCTCTGAGAAAACAGCCACA  
GGACTGGGTCTCCTTATCCGTCTTGCTTTTAACTATGTAAATTTCTGTGGTTGCTATCTTATGTAAATATAG  
TAAAAATTTATTGTATATAGTTTCTATTAAATGTTAAAGAAAATGTTATGAAAATATCAAACAGTCACCTGAATT  
GAATGCAAAAAAAAAAAAAAAAAAAAA

3856/6881  
**FIGURE 3553**

MREKLIRLQSLYIDQFKRLQHLLKEKKRRYLHNRKVEHEALGSSLLTGPEGLLAKERENLKRLKCLRRYRQRYGV  
EALLHRQLKERRMLATDGAAQQAHTTRSSQRCLAFVDDVRCSNQS LPMTRHCLTQKDATAIGDLLTLYCGLMETA  
LD

3857/6881

## FIGURE 3554A

ATGGACAGCCAGAAGCTGGCTGGTGAGGATAAAGATTGAGAACCAGGAGCTGATGGACCTGCAGCTTCTGAGGAC  
CCAAGTGCCACTGAGTCAGACCTGCCCAACCCACATGTGGGAGAGGTCTCTGTCTTAGTTCTGGGAGTCCCAGG  
CTTCAGGAGACTCCTCAGGACTGCAGTGGGGGTCCGGTGGCGGCTTGTGCTCTCTGTAACTGCGGGGAGCCAGT  
CTACACGGGCAGCGGGAGCTACGGCGCTTTGAGTTGCCATTTGATTGGCCCCGGTGTCCAGTGGTGTCCCTGGG  
GGGAGCCAGGGCCCAATGAGGCAGTGTGCCCAGTGAGGACCTATCACAGATTGGTTCCCTGAGGGCCTTACA  
CCTGCCACCTAGGAGAACCTGGAGGGTCTGCTGGGCTCACCATTGGTGTGCTGCATGGTGGCAGGCGTATGG  
GGCAGGAGGGCCAGAACTATGTGGTGTGGACAAGGCCATCTTCTCAGGGATCTCACAGCGCTGTCCCACTGC  
ACCAGGCTCGGTGCCTCCATCCCTTGCCGCTCACCTGGATGTCCACGGCTTTACCACTTCCCCTGCGCGACTGCC  
AGCGGTTCTTCCTATCCATGAAAACACTGCAGCTGCTATGCCAGAGCACAGTGAGGGGGCTGCATATCTGGAG  
GAGGCTCGCTGTGAGTGTGTGAGGGGCCAGGGGAGTTGTGTGACCTGTTCTTCTGTACCAGCTGTGGGCATCAC  
TATCACGGGGCTGCCTGGACACTGCTCTGACTGCCCGAAACGTGCTGGCTGGCAGTGCCCTGAATGCAAAGTG  
TGCCAAAGCTGCAGGAAACCTGGGAATGACTCTAAGATGTTGGTTTGTGAGACGTGTGACAAAGGATACCATACT  
TTCTGCCTAAAACACCCATGGAGGAACCTGCCGTCTCACTCTTGAAGTGCAAGGCGTGCCGGGTGTGCCGGGCC  
TGTGGGGCGGGCTCAGCAGAACTGAATCCCACTCGGAGTGGTTTGAAGTACTCTCTGTACCCGCTGTCTCAC  
AAAGCCAGGGAGGTGAGACTATCCGCTCCGTTGCTGAGCAGCATACCCCGGTGTGTAGCAGATTTTACCCCCA  
GAGCCTGGCGATACCCCACTGACGAGCCCGATGCTCTGTACGTTGCATGCCAAGGGCAGCCAAAGGGTGGGCAC  
GTGACCTCTATGCAACCAAGGAACAGGGCCCTGCAATGTGAAGCCAAACCACTAGGGAAAGCAGGGGTCCAA  
CTTGAGCCCCAGTTGGAGGCCCCCTAAACGAGGAGATGCCACTGCTGCCCCACCTGAGGAGTCACCCCTGTCC  
CCACCCTGAGGAATACCCACGTCCCCACCACCTGAGGCATCACGCTGTACCACCACCTGAGGAATTGCC  
GCATCCCACTTCTGAGGCATTGCACCTGTCCCGGCGCTGGAGGAATCGCCCTCTCTCCGCCGCTGAGGAG  
TCTCCTCTGTCTCCCCACCTGAATCATCACTTTTTCTCCACTGGAGGAGTCGCCCTGTCTCCACCGGAAGAG  
TCACCCCACTTCTCCTGCACTTGAGACGCCTCTATCCCCACCACCTGAAGCATCGCCCTGTCCCCACCATTTGAA  
GAATCTCCTTTGTCCCCGCCACCTGAGGAATTGCCCACTTCCCGCCACCTGAAGCATCTCGCTGTCTCCACCA  
CCTGAGGAGTCACCCATGTCCCCCTCCACCTGAAGAGTCACCATGTCTCCACCACCGGAGGCATCTCGTCTGTT  
CCACCATTTGAAGAGTCTCCTCTGTCCCCTCCACCTGAGGAGTCTCCCTTTCCCCACCACCTGAGGCATCACGC  
CTGTCCCCACCACCTGAGGACTCGCCTATGTCCCCACCACCTGAAGAATCACCTATGTCCCCCCACCTGAGGTA  
TCGCGCCTATCCCCCTGCCTGTGGTGTACGCGCTGTCTCCACCGCTGAGGAATCTCCCTTGTCCCCACCGGCC  
CTGTCTCCTTTGGGGGAGTTAGAGTACCCCTTTGGTGCCAAAGGGGACAGTGACCCTGAGTCACCGTTGGCTGCC  
CCCATCCTGGAGACACCCATCAGCCCTCCACAGAAGCTAACTGCAGTACCCTGAGCCTGTCCCCCTATGATC  
CTTCCCCCATCTCCAGGCTCCCCAGTGGGGCCGGCTTCTCCCATCCTGATGGAGCCCTTCTCCTCAGTGTTCCG  
CCACTCCTTCAGCATTCCCTGTTTCCCCAAAACCTCCCTTCCAGTGCTCTCCTCTGCCCTACCAGTGTCC  
GTTCCCTCCCCGTTGAGTCCCATAGGGAAGGTAGTGGGGGTCTCAGATGAGGCTGAGCTGCACGATGGAGCT  
GAGAAAGTTTTCAGAACCTGAATGCCAGCCTTGAACCCAGTGCCACCAGTCTCCTTCCCCAATGGGGGAC  
CTTCTGCCCCGCCCCAGCCCTGCCCCAGCCCTGGATGACTTCTCTGGCCTAGGGGAAGACACAGCCCTCTG  
GATGGGATTGATGCTCCGGGTTACAGCCAGAGCCTGGACAGACCCTGGCAGTTTGGCTAGTGAACCTAAAGGC  
TCCCCTGTGCTCCTGGACCCCGAGGAGCTGGCCCTGTGACCCCTATGGAGGTCTACCCCGAATGCAAGCAGACA  
GCAGGGCAGGGCTCACCATGTGAAGAACAGGAAGAGCCAGTGCACCGGTGGCCCCACACCACCACTCTCATC  
AAATCCGACATCGTTAACGAGATCTCTAATCTGAGCCAGGGTGATGCCAGTGCCAGTTTCTGGCTCAGAGCCC  
CTCCTGGGCTCTCCAGACCCGGAGGGGGTGGCTCCCTGTCCATGAGTTGGGGGTCTCTACGGATGTTAGTCCA  
GCCCCAGATGAGGGCTCCCTACGGCTCTGTACTGACTCACTGCCAGAGACTGATGACTCACTATTGTGCGATGCT  
GGGACAGCTATCAGCGGAGGCAAAGCTGAGGGGGAGAAGGGGCGGCGCAGCTCCCCAGCCGTTCCCGCATC  
AAACAGGGTTCGACGAGCAGTTTCCAGGAAGACGCCGGCTCGTGGAGGAGCCATGGAGGACGTGGTAGAGGA  
CGGGCCCGGCTAAAGTCAACTGCTTCTTCCATTGAGACTCTGGTAGTTGTGACATTGATAGCTCTCCAGTAAG  
GAGGAGGAGGAAGAAGATGATGACACCATGCAGAATACCGTGGTTCTTCTCTCCAACACAGACAAATTTGTCTA  
ATGCAGGACATGTGTGTGGTATGTGGCAGCTTTGGCCGGGGGCGAGAGGGCCACCTCCTTGCCTGTTCGAGTGC  
TCTCAGTGCTATCACCTTACTGTGTCAACAGCAAGATCACCAAGGTGATGCTGCTCAAGGGCTGGCGTTGTGTG  
GAGTGTATTGTGTGTGAGGTGTGTGGCCAGGCCTCCGACCCCTCACGCTGTGCTCTGTGATGACTGTGATATT  
AGCTACCACACATACTGCCTGGACCCCCCACTGCTCACCGTCCCCAAGGGCGGCTGGAAGTGCAAGTGGTGTGTG

3858/6881

**FIGURE 3554B**

TCCTGTATGCAGTGTGGGGCTGCTTCCCCTGGCTTCCACTGTGAATGGCAGAATAGTTACACACACTGTGGGCCC  
TGTGCCAGCCTGGTGACCTGCCCTATCTGTCTATGCTCCTTACGTAGAAGAGGACCTACTAATCCAGTGCCGCCAC  
TGTGAACGGTGGATGCATGCAGGCTGTGAGAGCCTCTTACAGAGGACGATGTGGAGCAGGCAGCCGATGAAGGC  
TTTACTGTGTCTCTGCCAGCCCTACGTGGTAAGCCTGTGGCGCCTGTTCACCTCCAGAGCTGGTGCCCATG  
AAGGTGAAAGAGCCAGAGCCCCAGTACTTTCGCTTCGAAGGTGTGTGGCTGACAGAACTGGCATGGCCTTGCTG  
CGTAACCTGACCATGTCACCACTGCACAAGCGGCGCCAACGGCGAGGACGGCTTGGCCTCCAGGCGAGGCAGGA  
TTGGAGGGTTCTGAGCCCTCAGATGCCCTTGGCCCTGATGACAAGAAGGATGGGGACCTGGACACCGATGAGCTG  
CTCAAGGGTGAAGGTGGTGTGGAGCACATGGAGTGCGAATTAAGTGGAGGGCCCCGTCAGCCCTGATGTGGAG  
CCTGGCAAAGAGGAGACCGAGGAAAGCAAAAACGCAAGCGTAAACCATAACGGCCTGGCATTGGTGGTTTCATG  
GTGCGACAGCGGAAATCCACACACGACGAAAAAGGGGCTGCTGCACAGGCGGAGGTGTTGAGTGGGGATGGG  
CAGCCCGACGAGGTGATACCTGCTGACCTGCCTGCAGAGGGCGCCGTTGGAGCAGAGCTTAGCTGAAGGGGATGAG  
AAGAAGAAGCAACAGCGGCGAGGGCGCAAGAAGAGCAAACTGGAGGACATGTTCCTGCTTACTTGCAGGAAGCC  
TTCTTTGGGAAGGAGCTGCTGGACCTGAGCCGTAAGGCCCTTTTTCAGTTGGGGTGGGCCGCGCAAGCTTTGGA  
CTAGGGACCCCAAAAGCCAAGGGAGATGGAGGCTCAGAAAGGAAGGAACCTCCACATCGCAGAAAGGAGATGAT  
GGTCCAGATATTGCAGATGAAGAATCCCGTGGCCTCGAGGGCAAGCCGATACACCAGGACCTGAGGATGGGGG  
GTGAAGGCATCCCCAGTGCCCGTACCTGAGAAGCCAGGCAACCCAGGTGAAGGGATGCTTAGCTCTGACTTA  
GACAGGATTTCCACAGAAGAACTGCCCAAGATGGAATCCAGGACCTGCAGCAGCTCTTCAAGGATGTTCTGGGC  
TCTGAACGAGAACAGCATCTGGGTGTGGAACCCCTGGCCTAGAAGGCAGCCGTACGCCACTGCAGAGGCCCTTT  
CTTCAAGGTGGACTCCCTTTGGGCAATCTGCCCTCCAGCAGCCCAATGGACTCCTACCCAGGCCCTCTGCCAGTCC  
CCGTTCTGGATTCTAGGGAGCGCGGGGGCTTCTTTAGCCCGGAACCCGGTGAAGCCGACAGCCCTGGACGGGC  
TCAGGTGGCACCACGCCCTCCACCCCAACACCCACCGAGGGGTGAGGGCGACGGACTCTCCTATAACCAG  
CGGAGTCTTCAGCGCTGGGAGAAGGATGAGGAGTTGGGCCAGCTGTCCACCATCTACCTGTGCTCTATGCCAAC  
ATTAATTTTCTAATCTCAAGCAAGACTACCCAGACTGGTCAAGCCGTTGCAAAACAAATCATGAAGCTCTGGAGA  
AAGGTTCCAGCAGCTGACAAAGCCCCCTACCTGCAAAAGGCCAAAGATAACCGGGCAGCTCACCAGCATCAACAAG  
GTGCAGAAGCAGGCTGAGAGCCAGATCAACAAGCAGACCAAGGTGGGCGACATAGCCCGTAAGACTGACCGACCG  
GCCCTACATCTCCGATTCCCCCGCAGCCAGGGGCACTGGGCGAGCCCGCCCCCGCTGCTGCCCCCACCATTTC  
ATTGGCAGCCCCACTACCCCCGCGGCTTGTCTACCTCTGCGGACGGGTTCCTGAAGCCGCGGGCGGGCTCGGTG  
CCTGGCCCTGACTCGCCTGGTGAGCTCTTCTCAAGCTCCACCCAGGTGCCCCGCAAGTGCCCTTCGAGGAC  
CCCTTTGGACTGGCCCCCTGCCTATCCCCTGGAGCCCCGCTTCCCCACGGCACCGGCCACCTATCCCCCTATCCT  
AGTCCTACGGGGGCCCCCTGCGCAGCCCCCGATGCTGGGCGCCTCATCTCGTCTGGGGCTGGCCAGCCAGGGGAA  
TTCCACACTACCCACCTGGCACCCCCAGACACCAGCCCTCCACACCTGACCCATTCTCAAACCCCGCTGCCCC  
TCGCTGGATAACTTGGCTGTGCTGAGAGCCCTGGGGTAGGGGGAGGCAAGCTTCCGAGCCCTGCTCTCGCCC  
CCACCTTTTGGGGAGTCCCGGAAGGCCCTAGAGGTGAAGAAGGAAGAGCTTGGGGCATCCTCTCCTAGCTATGGG  
CCCCAAACCTGGGCTTTGTTGACTCACCTCCTCAGGCACCCACCTGGGTGGCCTGGAGTTAAAGACACCTGAT  
GTCTTCAAAGCCCCCTGACCCCTCGGGCATCTCAGGTAGAGCCCCAGAGCCCGGGCTTGGGCCTAAGGCCCCAG  
GAGCCACCCCTGCCCAGGCTTTGGCACCTTCTCTCAAGTCACCCAGACATCTTTCGCCCTGGCTCCTACACT  
GACCCATATGCTCAGCCCCCATTGACTCCTCGGCCCCAACCTCCGCCCTGAGAGCTGCTGTGCTCTGCCCCCT  
CGCTCACTGCCCCTCCGACCCCTTCTCCCGAGTGCCTGCCAGTCCCTCAGTCCAGTCCAGCTCCAGTCTCCACTG  
ACACCCCGGCTCTGTCTGCTGAAGCTTTTGGCCATCACCCGTTACCCCTCGCTTCCAGTCCCTGACCCCTTAT  
TCTCGCCACCCCTACGCCCCCTAGTCCCGTGACCCATTGCCCCATTGCATAAGCCACCCGACCCAGCCCCCT  
GAAGTTGCCCTTAAGGCTGGGTCTCTAGCCACACTTCGCTGGGGGCTGGGGAGTTCCAGCAGCCCTGCCCCG  
GGGCCAGCAGGTGAGCTCCATGCCAAGGTCCCAAGTGGGCAGCCCCCAATTTGTCCGGTCCCTGGGACGGGT  
GCATTTGTGGGCACCCCTCTCCCATGCGTTTCACTTTCCTCAGGCAGTAGGGGAGCCTTCCCTAAAGCCCCCT  
GTCCCTCAGCCTGGTCTCCCGCCACCCATGGGATCAACAGCCATTGTTGGGCCCGCCCCACCTTGGGCAAGCCT  
CAAAGCACAACTACACAGTAGCCACAGGGAACCTCCACCCATCGGGCAGCCCCCTGGGGCCAGCAGCGGGTCC  
ACAGGGGAGAGCTATGGGCTGTCCCCACTACGCCCTCCGTGCGTTCTGCCACCACCTGCACCCGACGGATCCCTC  
CCCTACCTGTCCCATGGAGCCTCACAGCGATCAGGCATCACCTCTCTGTGCAAAAGCGAGAAGACCCAGGGACT  
GGAATGGGTAGCTCTTTGGCGACAGCTGAACCTCCAGGTACCCAGGACCCAGGCATGTCCGGCCTTAGCCAAACA

3859/6881  
**FIGURE 3554C**

GAGCTGGAGAAGCAACGGCAGCGCCAGCGACTACGAGAGCTGCTGATTTCGGCAGCAGATCCAGCGCAACACCCTG  
CGGCAGGAGAAGGAAACAGCTGCAGCAGCTGCAGGAGCAGTGGGGCCTCCAGGCAGCTGGGGTGCTGAGCCCAGC  
AGCCCTGCCTTTGAGCAGCTGAGTCGAGGCCAGACCCCTTTGCTGGGACACAGGACAAGAGCAGCCTTGTTGGGG  
TTGCCCCAAGCAAGCTGAGTGGCCCCATCCTGGGGCCAGGGTCTTCCCTAGCGATGACCGACTTCCCGGCCA  
CCTCCACCAGCCACGCCCTTCTCTATGGATGTGAACAGCCGGCAACTGGTAGGAGGCTCCCAAGCTTCTATCAG  
CGAGCACCTATCCTGGGTCCCTGCCCTTACAGCAGCAACAGCAACAACAGGCAACAGCA  
GCAACCTCCATGCGATTTGCCATGTGAGCTCGCTTTCATCAACTCCTGGACCTGAACCTGGCCGCCAAGCCCTA  
GGTTCCCGTTGGCGGGAATTTCCACCCGTCTGCCAGGCCCTGGTGAGCCAGTGCTGGTCCAGCTGGTCTGCC  
CAGTTTCATTGAGCTGCGGCACAATGTACAGAAAGGACTGGGACCTGGGGGCACTCCGTTTCTGGTTCAGGGCCCA  
CCTCAGAGACCCCGTTTTTACCCTGTAAAGTGAGGACCCCAACGACTGGCTCCTGAAGGGCTTCGGGGCCTGGCG  
GTATCAGGTCTTCCCCACAGAAACCTCAGCCCCACCGGCCCTGAATTGAACACAGTCTTCATCCAACACCC  
CACACCAAGGGTCTTACCTGCCAAGCTGGTTTGGAGCTGGTCAACCGGCCCCCTCGAGCACTGAGCTTGGCCGC  
CCCAATCCTCTGGCCCTGGGAAGCTGGGAAGTTGCCCTGTGAGGATCCCGAGCTGGATGACGATTTTGATGCCAC  
AAGGCCCTAGAGGATGATGAAGAGCTTGCTCACCTGGGTCTGGGTGTGGATGTGGCCAAGGGTGATGATGAACCT  
GGCACCTTAGAAAACCTGGAGACCAATGACCCCCACTTGGATGACCTGCTCAATGGAGACGAGTTTGACCTGCTG  
GCATATACTGATCCTGAGCTGGACACTGGGGACAAGAAGGATATCTTCAATGAGCACTGAGGCTGGTAGAATCG  
GCTAATGAGAAGGCTGAACGGGAGGCCCTGCTGCGGGGGGTGGAGCCAGGACCTTGGGCCCTGAGGAGCGCCCT  
CCCCCTGCTGCTGATGCCCTTGAACCCCGCTGGCATCTGTGCTCCCTGAGGTGAAGCCCAAGGTGGAGGAGGGT  
GGACGCCACCCCTTCTCCTTGCCAATTCACCATTTGCTACCCCCAAGGTAGAGCCCGCACCTGCTGCCAATTCCTT  
GGCCTGGGGCTAAAGCCAGGACAGAGCATGATGGGCAGCCGGGATACCCGGATGGGCACAGGGCCATTTTCTAGC  
AGTGGGCACACAGCTGAGAAGGCCTCCTTTGGGGCCACGGGAGGACCACAGCTCACCTGCTGACCCCCAGCCCA  
CTGAGTGGCCAGGAGGATCCTCCCTGCTGGAAGTTTGGAGCTCGAGAGTGGGGCTTTGACCTTGCTGGTGGGA  
CCTGCAGCATCTGGGGATGAGCTAGACAAGATGGAGAGCTCACTGGTAGCCAGCGAGTTACCCCTGCTCATTGAG  
GACCTGTTGGAGCATGAGAAGAAGGAGCTGCAGAAGAAGCAGCAGCTTTCAGCACAGTTGCAGCCTGCCAGCAG  
CAGCAGCAACAGCAGCAGCAGCATTCCTACTGTCTGCACCAGGCCCTGCCAGGCCATGTCTTTGCCACATGAG  
GGCTCTTCTCCAGTTTGGCTGGGTCCCAACAGCAGCTTTCCTGGGTCTTGCAAGGTGCCCGACAGCCAGGTTT  
CCCCAGCCACTGATGCCACCCAGCCACCAGCTCATGCCCTCCAGCAACGCCTGGCTCCATCCATGGCTATGGTG  
TCCAATCAAGGGCATATGCTAAGTGGGCAGCATGGAGGGCAGGCAGGCTTGGTACCCAGCAGAGCTCACAGCCA  
GTGCTATCACAGAAGCCCATGGGCACCATGCCACCTTCCATGTGCATGAAGCCGCAGCAATTGGCAATGCAGCAG  
CAGCTGGCAAACAGCTTCTTCCAGATACAGACCTGGACAAATTTGCTGCAGAAGATATCATTGATCCCATTGCA  
AAGGCCAAGATGGTGGCTTTGAAAGGCATCAAGAAAGTGATGGCTCAGGGCAGCATTGGGGTGGCACCTGGTATG  
AACAGACAGCAAGTGTCTCTGCTAGCCAGAGGCTCTCGGGGGGACCTAGCAGTGATCTGCAGAACCATGTGGCA  
GCTGGGAGTGGCCAGGAGCGGAGTGCTGGTGATCCCTCCAGCCTCGTCCCAACCCGCCCACTTTTGCTCAGGGA  
GTGATCAATGAAGCTGACCAGCGGCAGTATGAGGAGTGGCTGTTCCATACCCAGCAGCTCCTACAGATGCAGCTG  
AAGGTGCTAGAGGAGCAGATTGGTGTAACCCGAAGTCCCGGAAGGCTCTGTGTGCCAAGCAGCGCACTGCCAAA  
AAAGCTGGCCGTGAGTTCCCGAAGCTGATGCTGAGAAGCTCAAGCTGGTTACAGAGCAGCAGAGCAAGATCCAG  
AAACAACCTGGATCAGGTCCGGAACAGCAGAAGGAGCACACTAATCTCATGGCAGAATATCGGAACAAGCAGCAG  
CAACAACAGCAGCAGCAGCAGCAACAACAGCAACAGCACTCAGCTGTGCTGGCTCTCAGCCCTTCCAGAGTCCC  
CGGCTGCTACCAAGCTCCCTGGTCAGCTGCTCCCTGGCCATGGGCTGCAGCCACCACAGGGGCCCTCCGGGTGGG  
CAAGCCGAGGCTCTTCGCTGACCCCTGGGGGTATGGCACTACCTGGACAGCCTGGTGGCCCTTCTTAATACA  
GCTCTGGCCCCAACAGCAGCAACAGCAACATTCTGGTGGGGCTGGATCCCTGGCTGGCCCTTACAGGGGCTTCTTC  
CCTGGCAACCTTGCTCTTGAAGCCTCGGACCTGATTCAAGGCTTTACAGGAAAGGCAGCTGCAGCTGCAGCAG  
CAACGATGCAGCTGGCCAGAACTGCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCACCTTCTAGGACAG  
GTGGCAATCCAGCAGCAACAGCAGCAGGGTCTGGAGTACAGACAAACCAAGCTCTGGGTCCCAAGCCCCAGGGC  
CTTATGCTCTCCAGCAGCCACCAAGGCTCCTGGTCCAGCAGCTGTCCCTCAACACCCAGGGGCCCTCACAGA  
ATGCTGGGGCCTGCCAGGTGGCTGTGTTGAGCAGCAGCAGCAGCTGGAGCTTTGGGGCCCCAGGGCCCTCACAGA  
CAGGTGCTTATGACCAAGTCCCGGTGCTCAGTTCCTCCAGCTGGCACAGCAGGGTCAGGGCCTTATGGGACAC  
AGGTGGTCACAGCCAGCAGCAGCAGCAGCAACAACAGCACCAACAGCAAGGGTCCATGGCAGGGCTGTCCCAT



**FIGURE 3554D**

CTTCAGCAGAGTCTGATGTACACACAGTGGGACAGCCAAACTAGAGCGTACAGCCCTAGGGCTCTTTACAGCAGGCT  
CAGCAGCAGCAGCAGCTGCAACAGCAACAGCAACTTCAGCAGCAGCAGCAGCAGCAGCTACAACAGCAACAGCAA  
CTTCAGCAGCAACAGCTTCAACAGCAGCAACAGCAGCAGCAGCTTCAACAACAGCAGCAGCAACAGCTTCAACAG  
CAGCAACAGCAGCTACAACAGCAACAGCAACAACAACAGCAGCAGTTTCAACAGCAGCAGCAACAGCAGCAGATG  
GGCCTTTTAAACCAGAGTCGAACCTTTACTGTCTCCTCAGCAACAACAGCAGCAGCAAGTGGCACTTGGCCCTGGC  
ATGCCAGCAAAGCCTCTTCAACACTTTTCTAGCCCTGGAGCCCTGGGTCCAACCTCTCTCTGACGGGCAAGGAA  
CAAAACACCGTAGACCCAGCCGTTTCTTTCAGAGGCCACTGAGGGGCCCTCTACACATCAGGGAGGGCCGTTAGCA  
ATAGGAACTACCCCTGAGTCAATGGCCACTGAACCAGGAGAGGTAAAGCCCTCACTCTCTGGGGACTCACAACCT  
CTGCTTGTCCAACCCAGCCCGAGCCTCAGCCAGCTCTCTGCAGCTGCAGCCACCTCTGAGGCTTCCAGGACAT  
CAGCAGCAGCAAGTTAGCCTGCTCCACACAGCAGGTGGAGGAAGCCATGGGCAGCTAGGCAGTGGATCATCTTCT  
GAGGCCTCATCTGTGCCCCACCTGCTGGCTCAGCCCTCTGTTTCTTAGGGGATCAGCCTGGGTCCATGACCCAG  
AACCTTCTGGGCCCCAACAGCCCATGCTAGAGCGGCCCATGCAAAATAATACAGGGCCACAACCTCCCAAACCA  
GGACCTGTCTCCAGTCTGGGCAGGGTCTGCCTGGGGTTGGAATCATGCCTACGGTGGGTGAGCTTCGAGCACAG  
CTCCAAGGAGTCTTGGCCAAAAACCCACAGCTGCGGCACCTTAAGTCTCAGCAGCAGCAGCAGCTACAGGCACTC  
CTCATGCAGCGGCAGCTGCAGCAGAGTCAGGCAGTACGCCAGACCCCAACCTACCAGGAGCCTGGGACCCAGACC  
TCTCCCTCCAGGGCCTCTGGGCTGCCAACCTCAACTTGGGGGCTTCCCTGGACCACAGACAGGCCCCCTCCAG  
GAGCTAGGGGCAGGGCCTCGACCTCAGGGGCCACCCCGGCTCCCTGCCCCACCAGGAGCCTTATCTACAGGACCA  
GTCTTGGCCCTGTCCATCCACACCTCCACCATCCAGCCCTCAAGAGCCAAAGAGACCTTACAATTACCTTCC  
CCCAGCTCCCAGCTTCCCAGTGGAGGCCAGCTCCCTCCACCCATCCAGGGACCCCAACCTCAGGGGCCAACCC  
TTGGAGCCGCCTCTGGGAGGGTCTCACCTGCTGCTGCCAGCTTGCAGATACCTTGTTTAGCAAGGGTCTGGGA  
CCTTGGGATCCCCAGACAACCTAGCAGAAACCCAGAAGCCAGAGCAGAGCAGCCTGGTACCTGGGCATCTGGAC  
CAGGTGAATGGACAGGTGGTGCTGAGGCATCCCAACTCAGCATCAAGCAGGAACCTCGGGAAGGCCATGTGCC  
CTGGGAGCCAGTCAGTGAAGAGGGAGGCCAATGGGGAGCCAAAGGGGCACCAGGAACAGCAACCACCTCTCTG  
CTGGCAGGCCCTCGCTCAGAAAGCTGGGCATCTGCTCTTGCAGAAGCTACTCCGGGCAAAGAATGTGCAACTCAGC  
ACTGGGCGGGGTCCGAGGGGCTGCGAGCTGAGATCAACGGGCACATTGACAGCAAGCTGGCTGGGCTGGAGCAG  
AACTACAGGGTACCCCGAGCAACAAGGAGGATGCAGCAGCAAGGAAGCCTTTGACACCGAAGCCCAAGCGGGTA  
CAGAAGGCAAGCGACAGGTTGGTGAGCTCCCGAAAGAAGCTGCGGAAGGAGGACGGGGTTCAGGGCCAGCGAGGCC  
TTGCTGAAACAGCTGAAACAGGAGCTGTCCCTGCTGCCCTTAACGGAGCCTGCTATCACCGCCAATTTTAGCCTC  
TTTGCCCCCTTTGGCAGTGGCTGCCCAGTCAATGGGCAGAGCCAGCTGAGGGGGGCTTTTGAAGTGGGGCGCTG  
CCCACTGGCCCTGACTACTATTCCCAGCTGCTTACCAAGAATAACCTGAGTAACCCGCCGACACCACCTCTGTCG  
CTGCCCCCACCCACCCCATCGGTGCAGCAGAAGATGGTGAATGGCGTCACCCCATCTGAAGAGCTGGGGGAG  
CACCCCAAGGATGCTGCCTCTGCCCGGGATAGTGAAAGGGCACTGAGGGATACTTCAGAGGTGAAGAGTCTAGAC  
CTGCTGGCTGCCTTGCTTACACCCCTCACAATCAGACTGAGGATGTGAGGATGGAGAGTGATGAGGATAGCGAT  
TCTCTGACAGCATTGTGCCAGCTTCATCCCTGAGAGCATCTTGGGGGAGGAGGCCCTCGTTTCCCTCATCTG  
GGCTCAGGCCGGTGGGAGCAAGAGGACCGGGCCCTCTCCCTGTATCCCCCTCATTCTCGGGCCAGCATCCCA  
GCTTCTCCAGATACCAAACCTTATGGGGCCCTTGGCTGGAGGTCCCTGGAAAGCTGCCTGTGCAACTTGGGAA  
AAGGGCAAAGGAAGTGAGGTGTAGTGCATGCTCAGTCTCTGCTGCTGCAGCCAAGAACCTGAATGGCGTGATG  
GTGGCAGTGGCGGAGTGTGCTGAGCATGAAGATCCCCAACTCCTATGAGGTGCTGTTCCAGAGAGCCCCGCCCGG  
GCAGGCACTGAGCCAAAGAAGGGGGAAGCTGAGGGTCTGGTGGGAAGGAAAAGGGTCTGGAAGGCAAGAGCCCA  
GACACTGGCCCTGATTGGCTGAAGCAGTTTGATGCGATGTTGCCCTGGCTATACCTTGAAGGCCAACTAGACATC  
TTGAGCCTCCTGAAACAGGAGAGCCCCGCCAGAGCACCACCTCAGCAGCATACCTTACAATGTCTCCAAT  
CTGGATGTGCGACAGCTCTCGGCCCCACCTCCTGAAGAACCTCCCCGCCCTTCCCTTGGCACCTTCTCCT  
GCCAGTCCCCCTACTGAGCCCTTGGTTGAACCTTCCACCGAACCTTGGCTGAGCCACCCGTCCCCCTCACTCTG  
CCACTGGCCTCATCCCCGAAATCAGCCCGACCCAAGCCCCGTGCCCGGCCCTGGAAGAGGTGAAGATTCCCGT  
CCTCCTCGCCTCAAGAAATGGAAGGAGTGCCTGGAAGCGGCTTCCGCTGCTGCTGACCATCCAGAAGGGCAGT  
GGGCGGCAGGAGGATGAGCGGGAAGTGGCAGAGTTTATGGAGCAGCTTGGCACAGCCTTGCACCTGACAAGGTA  
CCGCGAGACATGCGCTGCTGCTGTTTCTGTCTATGAGGAGGGTGACGGGCCACTGATGGGCCTGCCCGTCTGCTG  
AACCTGGACCTGGACCTGTGGGTGCACCTCAACTGTGCCCTTTGGTCCACGGAGGTGTATGAGACCCAGGGCGGG

3861/6881

**FIGURE 3554E**

GCACTGATGAATGTGGAGGTTGCCCTGCACCGAGGACTGCTAACCAAGTGCTCCCTGTGCCAGCGAACTGGTGCC  
ACCAGCAGCTGCAATCGCATGCGTTGCCCAATGTCTACCATTTTGCTTGTGCCATCCGTGCCAAGTGCAATGTTT  
TTCAAGGACAAGACCATGCTGTGTCCAATGCATAAGATCAAGGGGCCCTGTGAGCAAGAGCTGAGCTCTTTTGCT  
GTCTTCCGGCGGGTCTACATTGAGCGGGACGAGGTGAAGCAAATCGCTAGCATCATTAGCGGGGAGAACGGCTG  
CACATGTTCCGTGTGGGGGGCCTTGTGTTCCACGCCATCGGACAGCTGCTGCCTCACCAGATGGCTGACTTTCAT  
AGTGCCACTGCCCTCTATCCCGTGGGCTACGAGGCCACGCGCATCTATTGGAGCCTCCGCACCAACAATCGTCGC  
TGCTGCTATCGCTGTTCTATTGGTGAGAACAACGGGCGGGCGGAGTTTGTAATCAAAGTCATCGAGCAGGGCCTG  
GAGGACCTGGTCTTCACTGACGCCTCTCCCCAGGCCGTGTGGAATCGCATCATTGAGCCTGTGGCTGCCATGAGA  
AAAGAGGCTGACATGCTGCGACTCTTCCCTGAGTATCTGAAGGGCGAGGAGCTCTTTGGGCTGACGGTGCAATGCC  
GTGCTTCGCATAGCTGAATCACTGCCCCGGGGTGGAGAGCTGTCAAACTATTTATTCGCTATGGGCGCCACCCC  
CTTATGGAGCTGCCACTCATGATCAACCCCACTGGCTGTGCCCGATCAGAGCCTAAAAATCCTCACACACTACAAA  
CGGCCCCATACCCTGAACAGCACCAGCATGTCTAAGGCATATCAGAGCACCTTCACAGGCGAGACCAACACCCCC  
TACAGCAAGCAGTTTGTGCACTCCAAGTCATCTCAGTACCGGCGGGCTGCGCACCGAATGGAAGAACAACGTGTAC  
CTGGCTCGCTCCCGTATCCAGGGCCTGGGGCTCTATGCAGCCAAGGACCTAGAAAAGCACACAATGGTTATCGAG  
TACATTGGCACCATCATTGGAACGAGGTGGCCAACCGGCGGGAGAAAATCTACGAAGAGCAGAATCGAGGCATC  
TACATGTTCCGAATAAACAATGAACATGTGATTGATGCTACGTTGACCGGCGGCCCTGCCAGGTACATTAACCAT  
TCCTGTGCCCCTAACCTGTGTGGCCGAAGTCGTGACATTTGACAAAGAGGACAAAATCATCATCATCTCCAGCCGG  
CGAATCCCCAAAGGAGAGGAGCTAACCTATGACTATCAGTTTGATTTTGAGGACGATCAGCACAAGATCCCCCTGC  
CACTGTGGAGCCTGGAATTGTCGGAAATGGATGAACTAA

3862/6881  
**FIGURE 3555**

GC GCCCTTAAAGATGGTGAGGGGGCTCATGCTCTGAGTAGAAGGTGGTGACCTCCAGGAGCGGTGGGATGATGAG  
GGCCCGGGCGCCTCTTGCAATGGAGACGGTCATTTCTTCAGATAGCTCCCCAGCTGTGGAAAATGAGCATCCTCA  
AGAGACCCCGAGAATCCAACAATAGCGTGTATACCTTCCTTCATGAAGTCTCATCGCTGCTATGACCTGATTCCCAC  
AAGCTCCAAATTGGTTGTATTTGATACGTCCCTGCAGGTGAAGAAAGCTTTTTTTGCTTTGGTGACTAACGGTGT  
ACGAGCTGCCCTTTATGGGATAGTAAGAAGCAAAGTTTTGTGGGCATGCTGACCATCACTGATTTCATCAATAT  
CCTGCACCGCTACTATAAATCAGCCTTGGTACAGATCTATGAGCTAGAAGAACAAGATAGAACTTGGAGAGA  
GGTGTATCTCCAGGACTCCTTTAAACCGCTTGTCTGCATTTCTCCTAATGCCAGCITGTTTGATGCTGTCTCTTC  
ATTAATTGGAACAAGATCCACAGGCTGCCAGTTATTGACCCAGAATCAGGCAATACTTTGTACATCCTCACCCA  
CAAGCGCATTCTGAAGTTCCTCAAATTGTTTATCACTGAGTTCCCCAAGCCAGAGTTCATGTCCAAGTCTCTGGA  
AGAGCTACAGATTGGCACCTATGCCAATATTGCTATGGTTCGCACTACCACCCCGTCTATGTGGCTCTGGGGAT  
TTTTGTACAGCATCGAGTCTCAGCCCTGCCAGTGGTGGATGAGAAGGGGCGTGTGGTGGACATCTACTCCAAGTT  
TGATGTTATCAATCTGGCAGCAGAAAAGACCTACAACAACCTAGATGTATCTGTGACTAAAGCCTTGCAACATCG  
ATCACATTACTTTGAGGGTGTCTCAAGTGCTACCTGCATGAGACTCTGGAGACCATCATCAACAGGCTAGTGGA  
AGCAGAGGTTCAACGACTTGTAGTGGTGGATGAAAATGATGTGGTCAAGGGAATTGTATCACTGTCTGACATCCT  
GCAGGCCCTGGTGCTCACAGGTGGAGAGAAGAAGCCCTGAGCTGGGGGAAGGGGTGATGCAGCACCAGGGGATAT  
GCCCACTCACTGCCTGCTGGAAGCTCTGTGGGAATCAGATGAACTTGAGGGAATTGTGACTCTGTTCCCTGTT  
CAGGGTCCCCTGCCCTTCTATCTGGGAGCTAGGGAAGGTATGGGGGAGGAAAGAGAATGGATTATAGCTACCCT  
TACCCTCACACATACACTTGAAAAAACTTTCAGCCTAGCCAGTTCTAGCCCTGTCCTCTTAGATATATCCCCCT  
TTCTGGGTGAATATAGGCTCTGTGCCTCTCAGACAAATTCTGATCTCTAAGAGATCCCCAGACCTCACTTGCCT  
CTGCCTCCATCTTGCCCTGATTCAACCCTAAGATAATAGCACAACAAAATTCTTCATAAAGATATTTTTATTCA  
CCTGTTCCGTGCTATATGGAGGAGGCCAAGTCCATTTAGTGACATTTCTTCCCATATGTGAGTGGGGAGGATTG  
TGG

3863/6881  
**FIGURE 3556**

METVISDSSPAVENEHPQETPESNNSVYTSFMKSHRCYDLIPTSSKLVVFDTSLQVKKAFFALVTNGVRAAPLW  
DSKKQSFVGMLTITDFINILHRYYKSALVQIYELEEHKIETWREVYLQDSFKPLVCISPNASLFDVSSLRNKI  
HRLPVIDPESGNTLYILTHKRILKFLKLFITEFPKPEFMSKSLEELQIGTYANIAMVRTTTPVYVALGIFVQHRV  
SALPVVDEKGRVVDIYSKFDVINLAAEKTYNNDVSVTKALQHRSHYFEGVLKCYLHETLETIINRLVEAEVHRL  
VVVDENDVVKGIVSLSDILQALVLTGGEKKP

3864/6881

**FIGURE 3557**

CTCGACTCTTAGCTTGTGCGGGACGGTAACCGGGACCCGGTGTCTGCTCCTGTCGCCTTCGCCTCCTAATCCCTA  
GCCACTATGGTGATGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCGTGCTGGGAGCTCTA  
CTGCCTGGAACACGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTCCTT  
CAACACCTTCTTCAGTGAGACGGGCGCTGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAG  
GAAGATGCTGCCAATAACTATGCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGA  
ATTGCAAGCTGGCTGACCAGTGCACCGGTCTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGT  
TCTGGGTTACCTCCCTGCTCATGGAACGTCTCTCAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCATT  
TACCCAGCACCCAGGTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCTGGAG  
CACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGTCGTAGAAACCTCGATATCGAGCGC  
CCAACCTACACTAACCTTAACCGCCTTATTAGCCAGATTGTGTCTCCATCACTGCTTCCGTCATCTCTGCTGAG  
AAAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAACCAGATGGTGAAA  
TGTGACCCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAAT  
GCTGCCATTGCCACCATCAAACCAAGCGCAGCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGC  
ATCAACTACCAGCCTCCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGCGAGTTTTAGAGGCCCCGTGAAGATA  
TGGCTGCCCTTGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAGGAGAGG  
AATACTAATTATCCATTCTTTTGGCCCTGCAGCATGTCATGCTCCCAGAATTTAGCTTCAGCTTAAGTACAG  
ACGTTAAAGCTTTCTGGTTAGATTGTTTTCACTTGGTGATCATGTCTTTTCCATGTGTACCTGTAATATTTTCC  
ATCATATCTCAAAGTAAAGTCATTAACATC

3865/6881  
**FIGURE 3558**

MERLSVDYGKKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYTNLN  
RLISQIVSSITASVISAEKAYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIK  
TKRSIQFVDWCPTGFKVGINYQPPTVVPGGDLAKASFQRPVKIWLPLRRIMRRLVWILLKERVRRKKERNINYPFL  
LALQHVMLPEFQLQLN

3866/6881  
**FIGURE 3559**

CTCCAGCAGCACCCGAGAGGGTCAGGAGAAAAGCGGAGGAAGCTGGGTAGGCCCTGAGGGGCCTCGGTAAGCCAT  
CATGACCACCCGGCAAGCCACGAAGGATCCCCCTCCTCCGGGTGTATCTCTACCCCTAGCAAGATTCCGGTACG  
CTCTCAGAAACGCACGCCTTTCCCCACTGTTACATCGTGCCTGTTGACAGGAGAACCAAGATCCAAGGAGATG  
GGTGACAGAAACCACCGCTCAATATTCAACGCCCCCTCGTTGATTACGACAGCCCCAGGCCGAAAGCCAGGCACCA  
GGCAGAGACATCACAAAGATTGGTGGGGATCAGTCAGCCTCGGAACCCCTTGAAGAGCTCAGGCCTAGCCCTAG  
GGGTCAAAATGTGGGGCCTGGGCCCCCTGCCCAGACAGAGGCTCCAGGGACCATAGAGTTTGTGGCTGACCCTGC  
AGCCCTGGCCACCATCTGTCTAGGTGAGGGTGTGAAGAGCTGTACCTGGGGCGCCAGCCTAGTCTGGCTAAAAG  
AGTACTGGTTCGAGGAAGTCAGGGAGGCACCAACCAGAGGGTCCAGGGTGTTCGGGCCTCTGCATATTTGGCCCC  
CAGAACCCCCACCCACCGACTGGACCCTGCCAGGGCTTCTGTCTCTTAGGCTGGAGGGACCAAGACCTCGAGG  
CCGGACATTGTGTCCCAGAGGCTACAGGCTCTGATTTACCTTCAGGACCTTCTTTTACCCCTTCCACTCGCCC  
CAGTTTCCAGGAGCTAAGAAGGGAGACAGCTGGCAGCAGCCGACTTCAGTGAGCCAGGCCTCAGGATTGCTCCT  
GGAGACCCCAAGTCCAGCCTGCTTTCTCTCTTCTTAAAGGAGAACGCGAGGTGTCACTCACTCAGATGAAGGAGG  
TGTGGCCTCTCTTGGTCTGGCCCAGCGAGTACCATTAAAGAGAAAACCGAGAAATGTCACATACCAGGGACAGCCA  
TGACTCCCACCTGATGCCCTCCCCCTGCCCTGTGGCCCAGCCCTTGCCCTGGCCATGTGGTGCCATGTCCATCAC  
CTTTGGACGGGCTCAGCGTGTACCCTCCCCAGGCCCTCCAACCTCTGACCTCATATTCAGTGTTCGGGCGTCTCAC  
CGTTCAACCTAAAACCCGGTTACACCCATGCCATCAACCCCCAGAGTTCAGCAGGCCCAAGTGGCTGCGTGGTGT  
CTCCCTCAGTCCTGCTCTGAAGATCTTGCCTGCCCTGGGAGCAGGTTGCCGTCCGGTTGTTTGACCAGGAGAG  
TTGTATAAGGTCACTGGAGGGTTCTGGGAAACCAACCGGTGGCCACTCCTTCTGGACCCCACTTAACAGAACCCC  
CAGCCTCCAGGAGGTGAAGATTCAACGCATCGGTATCTTCAACAGCTGTTGAGACAGGAAGTAGAGGGGCTGGT  
AGGGGGCCAGTGTGTCCCTCTTAATGGAGGCTCTTCTCTGGATATGGTTGAACTTCAGCCCCCTGCTGACTGAGAT  
TTCTAGAACTCTGAATGCCACAGAGCATAACTCTGGGACTTCCACCTTCTTGGACTGTTAAAACACTCAGGGCT  
GCCAAAGCCCTGTCTTCCAGAGGAGTGCAGGGGAACACAGCCCTGCCCTCCGGCAGAGCCTGGGCCCCCAGAGGC  
CTTCTGTAGGAGTGAGCCTGAGATACCAGAGCCCTCCCTCCAGGAACAGCTTGAAGTACCAGAGCCCTACCCTCC  
AGCAGAACCCAGGCCCTAGAGTCTGCTGTAGGAGTGAGCCTGAGATACCGGAGTCTCTCGCCAGGAACAGCT  
TGAGGTACCTGAGCCCTGCCCTCCAGCAGAACCCAGGCCCTAGAGTCTACTGTAGGATTGAGCCTGAGATACC  
GGAGTCTCTCGCCAGGAACAGCTTGAGGTACCTGAGCCCTGCCCTCCAGCAGAACCCGGGCCCTTCAGCCCAG  
CACCCAGGGGCAGTCTGGACCCCCAGGGCCCTGCCCTAGGGTAGAGCTGGGGGCATCAGAGCCCTGCACCCTGGA  
ACA TAGAAGTCTAGAGTCCAGTCTACCACCTGCTGCAGTCAGTGGGCTCCAGCAACCAACAGCCTGATCTTCTC  
TTCCCAACACCCGCTTTGTGCCAGCCCCCTATCTGCTCACTCCAGTCTTTGAGACCCCCAGCAGGCCAGGCAGG  
CCTCAGCAATCTGGCCCCCTCGAACCTAGCCCTGAGGGAGCGCCTCAAATCGTGTTTAACCGCCATCCACTGCTT  
CCACGAGGCTCGTCTGGACGATGAGTGTGCCTTTTACACAGCCGAGCCCCCTCCCTCAGGCCCCACCCGGGTCTG  
CACCAACCTGTGGCTACATTACTCGAATGGCAGGATGCCCTGTGTTTCAATCCAGTTGGTTCTGCTGCCCCCA  
GGGCTCTCCATGATGAGACAACCACTCCTGCCCTGCCGTACTTCTTCTTTAGCCCTTATTTATTGTGGTCTG  
CCCATGGGACTGGGAGCCGCCACTTTTGTCTCAATAAAGTTTCTAAAGTA

3867/6881  
**FIGURE 3560**

TCCAGACCAACCTGGTGCCCTATCCCCGCATCCACTTCCCTCTGGCCACATATGCCCCTGTCATCTCTGCTGAGA  
AAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAACCAGATGGTGAAAT  
GTGACCCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAATG  
CTGCCATTGCCACCATCAAGACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGCA  
TCAACTACCAGCCTCCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAGCTGTGTGCATGCTGAGCA  
ACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAACGTGCCTTTG  
TTCACCACCCACACCACCTGGAGCACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGT  
CGTAGAAACCTCGATATCGAGCGCCCAACCTACACTAACCTTAACCGCCTTATTAGCCAGATTGTGTCTCCATC  
ACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTTGACCTGACAGAATTCCAGACCAACCTGGTGCCCTACCCC



3868/6881  
**FIGURE 3561**

AATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAATGCTGCCATTGCCACCATCA  
AGACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGCATCAACTACCAGCCTCCCA  
CTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAGCTGTGTGCATGCTGAGCAACACCACAGCCATTGCTG  
AGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAACGTGCCTTTGTTCACTGGTACGTTGGGG  
AGGGGATGGAGGAAGGTGAGTTTTCAGAGGCCCGTGAGGACATGGCTGCCCTTGAGAAGGATTATGAGGAGGTTG  
GTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAGGAGAGGAATACTAAAGTTAAAACGTCACAAAGGTGCTGC  
TTTTACAGGGAAGCTTATTCTGTTTTAAACATTGAAAAGTTGTGGTCTGACATGAATGCTTTGTTACAGACCCAA  
GCTGTCCATTTCTGTGATGGGTTTTGAATAAAGTATTCCC

3869/6881  
**FIGURE 3562**

CTCCTTGACTCGAACCTTGGACAGTGGCATTGGGACCTTCCCACCCCCAGACCATGGTAGCAGTGGGACCCCCAG  
CAAGAATCTTCTAAGACCAAGCCACCQCGGCTGGATCCCCACCTGGGGTACCCCCAGCTCGGGCCCCACCCCT  
TACCAAAGTCCCCCGCCGCGCCACACACTGGAGCGGGAGGTGCCAGGCATAGAGGAGCTGCTGGTGAGTGGGCG  
GCACCCCAGCATGCCAGCCTTCCCTGCACTGCTACCCGCTGCTCCGGGCCACCGGGGCCATGAGACCTGTCCTGA  
TGATCCCTGTGAAGACCCAGGCCCCACCCCTCCTGTCCAGCTGGCCAAGAAGTGGACCTTCCCCAATACTAGGGC  
AGCCGGCAGCTCCTCGGACCCTCTCATGTGCCCCACCCGACAAGTGGAGGGGCTGCCAGGACCCCCATGGCCCT  
GCCCCGTGGACCGGAAGCGAAGCCAGGAGCCAGCCGCGCTCCCTACGCCCCAGGGGCCACCTTTCGGGGGTAG  
CCGCACCCCCAGCACTTCGGACATGGCCGAGGAAGGCAGAGTGGCCAGCGGGGGCCCCCAGGGCTGGAGACCTC  
GGAGTCTCTCAGTGACTCACTCTACGACTCGCTGTCTCTTGTGGGAGTCAGGGCTGAGGGGCTGCGCCACGCCA  
CGCCCCGCTGGAGCTGGGGACCACAGACTGGACCGGCTCTCTCATGCCAGCCCCGGAGACGGGGACCCCTC  
CCTGAAGGGACCAAGGAGGCAGGTGGATAAGAAGGTGAAAAGGGGGTCCCTGGCACACCCACCACCCACTGCTT  
CGGCGGATGAGATGACCGTGCTCAGCTCAGGGAGAGACCCGCCCCCTTGGTCCCTTCTCTACCCAGAGTAAGGCT  
CTTCCTGGAAGGGACTGGGGGTAAAGGCCACTGTGTGCGAGCCCCCAGTCCCTACTTCAGGCTGAGCCATCTT  
GTGGTGCTGGGCTTCCTGCCCCGAAGCCCTCGCGAGGCCCTCCTGGAGGCCCCCGTGCTGGTGGA

3870/6881

**FIGURE 3563**

MFMGAGDAPLGSRPGHPHSSSQVKSQIGPPSPGEAQGPLLPSPARGLKFLKLPPTSEKSPSPGGPQLSPQLPR  
NSRIPCRNSGSDGSPSPLLARRGLGGGELSPEGAQGLPTSPSPCYTTPDSTQLRPPQSALSTTLSPGPVVSPCYE  
NILDLSRSTFRGPSPEPPPSPLQVPTYPQLTLEVPQAEVLRSPGVPPSPCLPESYPYGSPQEKSLDKAGSESPH  
PGRRTPGNSSKKPSQGSRRPGDPGSTPLRDRLAALGKLKTGPEGALGSEKNGVPARPGIEKTRGPGKSGESAGD  
MVPSIHRPLEQLEAKGGIRGAVALGTNSLKQQEPGLMGDPGARVYSSHSMGARVDLEPVSPRSCLTKVELAKSRL  
AGALCPQVPRTPAKVPTSAPSLGKPNKSPHSSPTKLPSKSPTKVVRPGAPLVTKEPKPKDGKGGPPWADCGSTT  
AQSTPLVPGPTDPSQGPEGLAPHSAIEEKVMKGIEENVLRLLQGQERAPGAEVKHRNTSSIASWFGLKKSPLPALN  
RRTEATKNKEGAGGGSPLRREVMEARKLEAESLNISKLMKAEDLRRALEEEKAYLSSRARPRPGGPAPGPNTG  
LGQVQGQLAGMYQGADTFMQQLNRVDGKELPSKSWREPKEYGDFQPVSSDPKSPWPACGPRNGLVGPLQGCCK  
PPGKPSSEPGRREEMPSEDSLAEPVPTSHFTACGSLTRTLDSGIGTFPPPDHGSSGTPSKNLPKTKPPRLDPPPG  
VPPARPPPLTKVPRRAHTLEREVPGIEELLVSGRHPSMPAFPALLPAAPGHRGHETCPDDPCEDPGPTPPVQLAK  
NWTFPNTRAAGSSSDPLMCPPRQLEGLPRTPMVRIAAEERERTREQEGVMWGDQFLQ

3871/6881  
**FIGURE 3564**

AGAGTGGAGACTGCTGCACGGACTCTGGAACCATGAACATATTTGATCGAAAGATCAACTTTGATGCGCTTTTAA  
AATTTTCTCATATAACCCCGTCAACGCAGCAGCACCTGAAGAAGGTCTATGCAAGTTTGGCCCTTTGTATGTTTG  
TGGCGGCTGCAGGGGCCATGTCCATATGGTCACATTCATTTCAGGCTGGCCTGCTGTCTGCCTTGGGCTCCC  
TGATATTGATGATTTGGCTGATGGCAACACCTCATAGCCATGAACTGAACAGAAAAGACTGGGACTTCTTGCTG  
GATTTGCATTCTTACAGGAGTTGGCCTGGGCCCTGCCCTGGAGTTTGTATTGCTGTCAACCCAGCATCCTTC  
CCACTGCTTTTCATGGGCACGGCAATGATCTTTACCTGCTTCACCTCAGTGCACCTCTATGCCAGGCGCCGTAGCT  
ACCTCTTTCTGGGAGGTATCTTGATGTGACCCCTGAGCTTGTTGCTTTTGTCTTCCCTGGGGAATGTTTTCTTTG  
GATCCATTTGGCTTTTCCAGGCAAACCTGTATGTGGGACTGGTGGTCATGTGTGGCTTCGTCCTTTTGTACTC  
AACTCATTATTGAAAAGGCCGAACATGGAGATCAAGATTATATCTGGCACTGCATTGATCTCTTCTTAGATTTCA  
TTACTGTCTTCAGAAAACCTCATGATGATCCTGGCCATGAATGAAAAGGATAAGAAGAAAGAGAAGAAATGAAGTG  
ACCATCCAGCCTTTCCCAATTAGACTTCCCTCTCCTTCCACCCCTCATTTCCCTTTTGCACACATTACAGGTGGTG  
TGTTCTGTGATAATGAAAAGCATCAGAAAAGCTTTTGTACTTTGTGGTTTCCCTCTATTTTGAATTTTTTGATCAA  
AAAACCTGATTAGCAGAATATAGTTTGGAGTTTGGCTTCATCTTCCCTGGGGTTCCCTCACTCCCTTTTTTGTCAA  
CCCCATCTGTAGCCTCTTCTCTACTCAGGCAGTCGACCCGCCACGATGAGAAGTGGGACCAGCAGAGGGCGCCA  
ACTTCAGGAGTCCGCTTTCCACCAGGCTTCATTACCCAGTGGACCTGAAGTGTGGTAGAGCCACCCGGCCC  
TTCCTTCCCTCATTGTTGTTTGGTATGCGCACAGTTCCTGTGGGACTGGGCCGTGAGTTTTCCATTGGAAAGAAGT  
TCAGTGGTCCCATTGTTAACTCAGCCTCAAACTCTCAACTGTCAGGCCCTACAAAGAAAATGGAGAGCCTCTTCTG  
GTGGATGCTTTGCTCCCTCTGAGCTGCCCATGCTGGTCTGGCAAACACACCTTTCTGCTTTGCCTTCACAAAAGT  
AATGTGTTCCCTTTCCACCCCTTGCCCTGACCCTCAGGAGTGCAGCCTGCTTCCATCCATGGGTGGGAAGACTTC  
AGCACAAAGGAAAGACTAATTCTTGTGAGGCATTTTTGAAAAGGCTGATTATGTGTATCAAGGTACAGCATCGTA  
GGGTTCCTTAACTTGCCCTGTTTTTGTTTTTTAGTTTGTATCCCTTACTGAGCGGCTCTACTAGGTGGC  
TGTGATTAAATGTCCCAAGCAAGGATAGGGAAGGGGAATGGTTGAGCCTCTGGAGATCATTGTAACCAATCCTGC  
CAGACCTGTTTGGGGCAGTGGGGAGCAAACCTAGATAAGGACCTGTTTGGGGCAGCAGGGAGCAAATCTCCTTT  
AACAACCAAGCAGTTCTCATTACATCAACAGAGCGAGGCTGTGATAACTTAGGAGGCAGCAATCCTAATAGTC  
CTTCAGTGCATTTTAGTCTGTCTCCAACCTGGACACCAAGTAGGTAGTGTCAAGCCAGAGATTGGGGCAGTAGATA  
AATGTTCATTTTACTGATGCACTTTAGTTTTTGGTCTGTTACCTGTTTTCCAGAAATTTGTGGCCTTTTAGGCGG  
GAGTTAGGCGACCAAACAGTGAGAGCCCAATCCCTGCAGTTTTGTGGCTTCAAGTGTGGGTGGACAGTCTTAA  
TGGGGATCTCCAGCTCCTTCCCTGTGGGCTGCCACAGACAGCTACCCCCAGAAGGGTCAATGTTGGGAGTGGTTGT  
GGCTCTGAGCTGCTCTACAGAGCTTCAGTGTGAGAGGATCGAGCCATTGAAAGCTCATTACCAGTAGGACATAAT  
TTTTGGCTCTCCCTATTACAAACCAAGTGCACAGTTTGACACAGTGGCCTCAGGTTACAGTGCACCATGTCACTG  
TGCTATCCTACGAAATCATTGTTTCTAAGTTGTGTTTATTCCTGGAGTGACATGCCACCCGAATGGCTCACTT  
TCACTGAGGATGCTGTCTCTGATTTAGCTGCTGCCTCCAGCCTCTGGCTTGAGAACTTACTAAAGGCACCTCCT  
TCTGTAAACCCCTGTTAACTCTCCATAAATTTGGTGATTCTCTGCTAGGCCTAAGATTTTGAGTTAACATCTC  
TTGAAGCCAAACTCCACCTTCTGTGCTTTTTGCTTGGGATAATGGAGTTTTCTTTAGAAACAGTGCCAAGAATG  
ACAAGATATTAAAAA

3872/6881  
**FIGURE 3565**

MNIFDRKINF DALLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVHVMVTHFIQAGLLSALGSLIIMIWL MATP  
HSHETEQR LGLLAGFAFLTGVGLGPALEFCIAVNPSILPTAFMGTAMIFTCTLSALYARRRSYFLGGILMSA  
LSLLLLSSLGNVFFGSIWLFQANLYVGLVVMCGFVLFD TQLIEKAEHGDQDYIWHCIDLFLDFITVFRKLMMIL  
AMNEKDKKKEKK

3873/6881  
**FIGURE 3566**

GCGAAGTGAAGGGTGGCCAGGTGGGGCCAGGCTGACTGAATGTATCTCCTAGCTATGGACTAAATAATACATGG  
GGGGAAATAAACAGTATTTCATGAGGGTGAAAATGTGACCCAGCAGGAAAATTACAACATTTTTCAATTGACGTT  
GAATAGGATGAGTCATGGAATTTAAGTGATTTACTGAAGATTATACTACTGGTAGATAGAAGAGCTAAAGAAAGA  
TGGATACTATGATGCTGAATGTGCGGAATCTGTTTGAGCAGCTTGTCGCGCGGGTGGAGATTCTCAGTGAAGGAA  
ATGAAGTCCAATTTATCCAGTTGGCGAAGGACTTTGAGGATTTCCGTAAAAAGTGGCAGAGGACTGACCATGAGC  
TGGGGAAATACAAGGATCTTTTGATGAAAGCAGAGACTGAGCGAAGTGCTCTGGATGTTAAGCTGAAGCATGCAC  
GTAATCAGGTGGATGTAGAGATCAAACGGAGACAGAGACTGAGGCTGACTGCGAAAAGCTGGAACGACAGATTG  
AGCTGATTCGAGAGATGCTCATGTGTGACACATCTGGCAGCATTCAACTAAGCGAGGAGCAAAAATCAGCTCTGG  
CTTTTCTCAACAGAGGCCAACCATCCAGCAGCAATGCTGGGAACAAAAGACTATCAACCATTGATGAATCTGGTT  
CCATTTTATCAGATATCAGCTTTGACAAGACTGATGAATCACCTGGATTGGGACTCTTCTTTGGTGAAGACTTTCA  
AACTGAAGAAGAGAGAAAAAGAGGCGCTCTACTAGCCGACAGTTTGTGATGGTCCCCCTGGACCTGTAAAGAAAA  
CTCGTTCCATTGGCTCTGCAGTAGACCAGGGGAATGAATCCATAGTTGCAAAAACCTACAGTGACTGTTCCCAATG  
ATGGCGGGCCCATCGAAGCTGTGTCCACTATTGAGACTGTGCCATATTGGACCAGGAGCCGAAGGAAAAACAGGTA  
CTTTACAACCTTGGAACAGTGACTCCACCOTGAACAGCAGGCAGCTGGAGCCAAGAACTGAGACAGACAGTGTGG  
GCACGCCACAGAGTAATGGAGGGATGCGCCTGCATGACTTTGTTTCTAAGACGGTTATTAAACCTGAATCCTGTG  
TTCCATGTGGAAAGCGGATAAAATTTGGCAAATATCTCTGAAGTGTGAGACTGTGCTGTGGTCTCTCATCCAG  
AATGTCGGGACCGCTGTCCCCCTCCCTGCATTCTACCTGATAGGAACACCTGTCAAGATTGGAGAGGGAATGC  
TGGCAGACTTGTGTCCCAGACTTCTCCAATGATCCCCCTCCATTGTTGTGCATTGTGTAAATGAGATTGAGCAAA  
GAGGTCTGACTGAGACAGGCCTGTATAGGATCTCTGGCTGTGACCGCACAGTAAAGAGCTGAAAGAGAAATTC  
TCAGAGTGAAACTGTACCCCTCCTCAGCAAAGTGGATGATATCCATGCTATCTGTAGCCTTCTAAAGACTTTC  
TTCGAAACCTCAAAGAACCCTTCTGACCTTTCGCCTTAACAGAGCCTTTATGGAAGCAGCAGAAATCACAGATG  
AAGACAACAGCATAGCTGCCATGTACCAAGCTGTTGGTGAACCTGCCCCAGGCCAACAGGGACACATTAGCTTTCC  
TCATGATTCACTTGCAGAGAGTGGCTCAGAGTCCACATACTAAATGGATGTTGCCAATCTGGCTAAAGTCTTTG  
GCCCTACAATAGTGGCCCATGCTGTGCCCAATCCAGACCCAGTGACAATGTTACAGGACATCAAGCGTCAACCCA  
AGGTGGTTGAGCGCCTGCTTTCCCTTGCCTCTGGAGTATTGGAGTCAGTTCATGATGGTGGAGCAAGAGAACATTG  
ACCCCTACATGTCAATTGAAAACCTCAAATGCCTTTTCAACACCACAGACACCAGATATTAAAGTGAGTTTACTGG  
GACCTGTGACCACTCCTGAACATCAGCTTCTCAAGACTCCTTCATCTAGTTCCCTGTACAGAGAGTCCGTTCCA  
CCCTCACCAGAACAACCTCCTAGATTTGGGAGCAAAAGCAAGTCTGCCACTAACCTAGGACGACAAGGCAACTTTT  
TTGCTTCTCCAATGCTCAAGTGAAGTCACATCTGCCTGTTACTTCCCAGCATTGACTGACTATAAGAAAGGACAC  
ATCTGTACTCTGCTCTGCAGCCTCCTGTACTCATTACTACTTTTAGCATTCTCCAGGCTTTTACTCAAGTTTAAT  
TGTGCATGAGGGTTTTATTAATAACTATATATCTCCCCTTCCCTTCTCCTCAAGTCACATAATATCAGCACTTTG  
TGCTGGTCATTGTTGGGAGCTTTTAGATGAGACATCTTCCAGGGGTAGAAGGGTTAGTATGGAATTGGTTGTGA  
TTCTTTTTGGGGAAGGGGGTTATTGTTCCCTTTGGCTTAAAGCCAAATGCTGCTCATAGAATGATCTTTCTCTAGT  
TTCATTTAGAAGTGAATTCCTGTGAGACAATGACAGAAACCTACCTATCTGATAAGATTAGCTTGTCTCAGGGTG  
GGAAGTGGGAGGGCAGGGCAAGAAAGGATTAGACCAGAGGATTTAGGATGCCTCCTTCTAAGAACCAGAAGTTC  
TCATTCCCCATTATGAAGTGAAGCTATAATATGGAGCTTTCATAAAAAATGGGATGCATTGAGGACAGAACTAGTGA  
TGGGAGTATGCGTAGCTTTGATTTGGATGATTAGGTCTTTAATAGTGTGAGTGGCACAACTTGTAATGTGAA  
AGTACAACCTCGTATTTATCTCTGATGTGCCGCTGGCTGAACTTTGGGTTCAATTTGGGGTCAAAGCCAGTTTTCT  
TTTAAATTTGAATTCATTCTGATGCTTGGCCCCATACCCCAACCTTGTCAGTGAGCCCACTTCTAAAGGT  
CAATATATCATCCTTTGGCATCCCACTAACAATAAAGAGTAGGCTATAAGGGAAGATTGTCAATATTTTGTGGT  
AAGAAAAGCTACAGTCATTTTTCTTTGCACCTTTGGATGCTGAAATTTTTCCCATGGAACATAGCCACATCTAGA  
TAGATGTGAGCTTTTTCTTCTGTTAAATATTCTTAATGTCTGTAAAAACGATTTTCTCTGTAGAATGTTTGA  
CTTCGTATTGACCCTTATCTGTAAACACCTATTTGGGATAATATTGGAAAAAAGTAAATAGCTTTTTTCAAAA  
TGAAAAA

3874/6881  
**FIGURE 3567**

MDTMMLNVRNLFEQLVRRVEILSEGNEVQFIQLAKDFEDFRKKWQRTDHELKGYKDLLMKAETERSALDVKLKHA  
RNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCDTSGSIQLSEEQKSALAFINRGQPSSSNAGNKRLSTIDESG  
SILSDISFDKTDSELDWDSSLVKTFKLKKREKRRSTS RQFVDGPPGPVKKTRSIGSAVDQGNESIVAKTTVTVPN  
DGGPIEAVSTIETVPYWTRSRRTGTILQPWNSDSTLNSRQLEPRTETDSVGT PQSNGGMRLHDFVSKTVIKPESC  
VPCGKRIKFGKLSLKCRDCRVVSHPECRDRCPLPCIPTLIGTPVKIGEGMLADFVSQTSPMIPSI VVHCVNEIEQ  
RGLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICSLKDFLRNLKEPLLTFRLNRAFMEAAEITD  
EDNSIAAMYQAVGELPQANRDTLAF LMIHLQ RVAQSPHTKMDVANLAKVFGPTIVAHAVPNPDPVTMLQDIKRQP  
KVVERLLSLPLEYWSQFMMVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGPVTTPEHQLLKTPSSSSLSQVRVS  
TLTKNTPRFGSKSKSATNLGRQGNFFASPMK

3875/6881  
**FIGURE 3568**

CTATCCCATAGTCTCGCTGCCCTGAGCCTCCCGTGCCGGCCGGCCGGCCGGGGGAACAGGCGGGCGCTCGGGGGG  
CGCTCGGGGGGCGGGGGGAGTTCGGGTTCCGGTTCTTTGTGCGGCTGCATCGGCGGCTCCGGGAAGATGGCGGCC  
CGGGCGGGTTTCCAGTCTGTGGCTCCAAGCGGCGGCGCGGAGCCTCAGGAGGGGCGGGCGGGCTGCTGCCTTG  
GGCCCCGGGCGGAACCTCCGGGGCCTCCTGTGCGAATCGGGCCGGCTCCGGGTCAAGGGCTGTACCGCTCCCCGATG  
CCCGGAGCGGCCTATCCGAGACCAGGTATGTTGCCAGGCAGCCGAATGACACCTCAGGGACCTTCCATGGGACCC  
CCTGGCTATGGGGGAACCCCTCAGTCCGACCTGGCCTGGCCCAGTCAGGGATGGATCAGTCCCGCAAGAGACCT  
GCCCCTCAGCAGATCCAGCAGGTCCAGCAGCAGGCGGTCCAAAATCGAAACCACAATGCAAAGAAAAAGAAGATG  
GCTGACAAAATTCTACCTCAAAGGATTCTGTAAGTGGTACCAGAATCCCAGGCCTATATGGATCTCTTGCGTTTTT  
GAAAGGAACTGGACCAGACTATCATGAGGAAACGGCTAGATATCCAAGAGGCCTTGAAACGTCCCATCAAGCAA  
AAACGGAAGCTGCGAATTTTCATTTCTAACACTTTCAATCCGGCTAAGTCAGATGCCGAGGATGGGGAAGGGACG  
GTGGCTTCTGGGAGCTTCGGGTAGAAGGACGGCTCCTGGAGGATTACGCCTTGTCAAATATGATGCCACTAAA  
CAAAAGAGGAAGTTCTCTCTCTTTTAAAGTCTTGGTGATTGAACTGGACAAAGACCTGTATGGGCCAGACAAC  
CATCTGGTAGAATGGCAGGACCGCCACTACCCAGGAGACCGATGGCTTTCAGGTGAAGCGGCGGGGAGACGTG  
AATGTACGGTGTACTGTCTACTGATGTGGATTACCAGCCTCCCCAGTTTAAATTAGACCCCGCCTAGCTCGA  
CTCCTGGGCATCCATACCCAGACTCGTCCAGTGATCATCCAAGCACTGTGGCAATATATTAAGACACATAAGCTC  
CAGGACCCCTCAGGAGCGGGAGTTTGTCTCTGTGACAAGTACCTGCAGCAGATCTTTGAGTCTCAACGTATGAAG  
TTTTACAGATCCCTCAGCGGCTCCATGCCTTGCTTATGCCACCAGAACCTATCATCATTAAATCATGTATCAGT  
GTTGACCCGAATGATCAGAAAAAGACAGCTTGTTATGACATTGATGTTGAAGTGGATGACACCTTGAAGACCCAG  
ATGAATTTCTTTCTGCTGTCCACTGCCAGCCAACAGGAGATTGCTACTCTAGACAACAAGATCCATGAGACAATA  
GAAACCATCAACAGCTGAAGACTCAGCGGGAGTTTATGCTGAGCTTTGCCAGAGACCCCTCAGGGTTTCATCAAT  
GACTGGCTTCAGTCCCAGTGCAGGGACCTCAAGACAATGACTGATGTGGTGGGTAACCCAGAGGAGGAGCGCCGA  
GCTGAGTTCTACTTCCAGCCCTGGGCTCAGGAGGCTGTGTGCCGATACTTCTACTCCAAGGTGCAGCAGAGACGA  
CAAGAATTAGAGCAAGCCCTGGGAATCCGGAATACATAGGCGCTCTCCACAGCCCTGATTGACTGCACCAATT  
CTTGATTTGGGCCCTGTGCTGCCTGCCTCATAGTATCTGCCTTGGTCTTGCTTGGGGCGTTCCAGGGGATGCTGT  
TGTTCAAGGACAACACCAGAATGAAGAGGGTCTCACAAGACACCTGTTATCCTCTTCTTTACCCCTATCTCTTC  
CCACCCCCAGCTTCCCTTTGCCCCACAAAGTTCCCATGTGCCTGTACCCTCCCCTGGTCTACATAGGACCTCTAG  
ATAGTGTTAGAGAGAGAACATGTAGTGTAATGAGTGTGGAATGGATTGGGCCTCAGGCCAGGTGGTCTTCAA  
GGGGACCAGCTAAGTATCCTGCCCTCAGAGACCCAGGAGTTGGGAGCTTTCGCTCCTTCTCCAAGACTCAGGC  
CTGTGGGCACTCTATAAGCTAGTTGATCTTGGCTCTCCTGATAACAGAATCCAATTTCTTCTCCTCCCTCCACAG  
GTTTGAACAACTCTCCCTTCACTTGTGCTGCTGTAGCACTACAGAAACCCCTGGTTCTTGGGCTCCACTGAGCC  
CCAGGTGAGTCCCCAGCCCTCTGGGTGGCCTGCTGTGAGTGCTTCTCTCACTCCTTAGTTGGGGTCCACATCAG  
TATTGGAGTTTTGTTCTTTATTGCTCCCTCCCAGACACTCCCTGTGGCTGCCCTTTGTGATTCCCTCAGATCTGC  
CCTAATCCCGGCATTTGGGTGGGGGAATCTTGCCCTTCCCTTTCCAGAGCCCCAGGGATCTCATCTGGGGAATG  
TCATTGCCAGCAGAGGCTGTTCCCTTCTGCTGTTTGGAGATGTGACTCATTCACTCACTCCACCCCTGCCTC  
TGATCCCTTAATGGAGAAACGGGCCTAAAACCAAACGGGTAAAAGCCCTGGGCCATCCCTGTCTTCTGTGCC  
TTGTCTGCCAGTTGACACCTACTGGTGACTTCTAGGGCACTGAGGAGTGAAAGCGCCTAGGGCTGGAGAAATAGC  
GCTGAGTTGGGTTGTGACTCTCCCTCTCCCTGCCTCACAGGATTGTGACTCCCCAGCCCTGCCCTCAAAGCT  
TCAGACCCCTCAGGTAGCAGCAGGACCTTGTGATCTTGGCCCTTGGATCTGAGATGTTTTTGCATCTTTCCAG  
GAGAGCCTCACATTCTTCTCCAGGTTGTATACCCCCGAGTTAGCATATCCAGGCTCGCAGACTCAACACAGC  
AAGGGTGGGAGACAGCTGGGCACAAAGGGGGAATTCGTTTACGATGGGCTCTAAACCCACAGAAGTACAAAGC  
CCCTGCTTCCCCACCCCTCCTCAGGCTCCTGCGAGCACACCCCAACCCCAATCCCTCCCTGTTCTACACTGG  
GGACAGCAGAAATTTCTCCCGTCTTCCCTTCTGCCATTTTCCCTCCCTTGAAAGGTTGACACTGGACAACCT  
TGGGGCAGCTGAGCCCTGGCCGCTCCTGGCTGGAACCATGAGAAGGAAGCTCAGTACTTCCACAGTGTCCCTG  
TTGATAACTGTTTTTATTAAGTGAATGTTTTTTTTCATGACCAAACCTTTTTTTTGTACTGTCCCTTATTGATG  
TTACCCAGTTTTAATAAAAGAATCTTCTGAAAAAAAAAAAAAAAAAAAA



3876/6881  
**FIGURE 3569**

MGPAPGGGLYRSPMPGAAYPRPGMLPGSRMTPQGFSMGPPGYGGNPSVRPGLAQSGMDQSRKRPAPQQIQQVQQQ  
AVQNRNHNAKKKKMADKILPQRIRELVPEAQAYMDLLAFERKLDQTIMRKRLDIQEALKRPIKQKRKLRIFISNT  
FNPAKSDAEDGEGETVASWELRVEGRLLDSALSKYDATKQKRKFSSFFKSLVIELDKDLYGPDNHLVEWHRTATT  
QETDGFQVKRPGDVNVRCTVLLMLDYQPPQFKLDPRLARLLGIHTQTRPVIIQALWQYIKTHKLQDPHEREFVIC  
DKYLQQIFESQRMKFSEIPQRLHALLMPPEPIIINHVISVDPNDQKKTACYDIDVEVDDTLKTQMNSFLLSTASQ  
QEIATLDNKIHETIETINQLKTQREFMLSFARDPQGFINDWLQSQCRDLKTMTDVVGNPEEERRAEFYFQPWAQE  
AVCRYFYSKVQQRQEELEQALGIRNT

3877/6881  
**FIGURE 3570**

TGCACTGTGACTCAGGCCTTCCCATCAGGCCTATTTGTCTACCCAATAAAGCGTGTTTTTCCAGAAACAAGAAG  
AGTTGGGAGAGGGAGCTTCAGTGCATGTGGCAGTGCGTGTGCTGGCGCGTATCATTGCACAGCTTGGCTCGCCAA  
AGACCCTCCCTCGAGGGAGAGAAACCACAGCCCCCAGAATTCAGCGGGCCTCTCCGAGAGCACGGCGCGTCTGAG  
GATGCGTATGTTGACCCGAATGATCAGAAAAAGACAGCTTGTTATGACATTGATGTTGAAGTGGATGACACCTTG  
AAGACCCAGATGAATTCTTTCTGCTGTCCACTGCCAGCCAACAGGAGATTGCTACTCTAGACAACAAGATCCAT  
GAGACAATAGAAACCATCAACCAGCTGAAGACTCAGCGGGAGTTCATGCTGAGCTTTGCCAGAGACCCTCAGGGT  
TTCATCAATGACTGGCTTCAGTCCCAGTGCAGGGACCTCAAGACAATGACTGATGTGGTGGGTAACCCAGAGGAG  
GAGCGCCGAGCTGAGTTCTACTTCCAGCCCTGGGCTCAGGAGGCTGTGTGCCGATACTTCTACTCCAAGGTGCAG  
CAGAGACGACAAGAATTAGAGCAAGCCCTGGGAATCCGGAATACATAG

3878/6881  
**FIGURE 3571**

GTACCTCACGGAAGCCGGCTTTGGCCCTGCGGCTGCTACCGTCGCCGCGGAGAAAATTGTTGGATCTGGCAGTCTA  
GGAATGAATCTCCTCTCAGCCTTTAAGCTCACCTGGTCAGAATCCTTGGATGAGCCTGTGGGACCGTTCCCTCCTA  
GCCCCGTGGTTTGGAAACAGTGGCTTTGGGACTGTAAGAGGATGGACAAAGATTCTCAGGGGCTGCTAGATTTCAT  
CCCTGATGGCATCAGGCACTGCCAGCCGCTCAGAGGATGAGGAGTCACTGGCAGGGCAGAAGCGAGCCTCCTCCC  
AGGCCTTGGGCACCATCCCTAAACGGAGAAGCTCCTCCAGGTTTCATCAAGAGGAAGAAGTTCGATGATGAGCTGG  
TGGAGAGCAGCCTGGCAAAATCTTCTACCCGGGCAAAGGGGGCCAGTGGGGTGGAAACCAGGGCGCTGTTCCGGGA  
GTGAACCCCTCCTCCAGTGAGAAGAAGAAGGTATCCAAAGCCCCCAGCACTCCTGTGCCACCCAGCCCAGCCCCAG  
CCCCTGGACTCACCAAGCGTGTGAAGAAGAGTAAACAGCCACTTCAGGTGACCAAGGATCTGGGCCGCTGGAAGC  
CTGCAGATGACCTCCTGCTCATAAATGCTGTGTTGCAGACCAACGACCTGACCTCCGTCCACCTGGGCGTGAAAT  
TCAGCTGCCGCTTCACCCCTTCGGGAGGTCCAGGAGCGTTGGTACGCCCTGCTCTACGATCCTGTCTCATCTCCAAGT  
TGGCCTGTGAGCCATGAGGCAGCTGCACCCAGAGGCTATTGCAGCCATCCAGAGCAAGGCCCTGTTTAGCAAGG  
CTGAGGAGCAGCTGCTGAGCAAAGTGGGATCGACACGCCAGCCACCTTGGAGACCTTCCAGGACCTGCTGCACA  
GACACCCCTGATGCCTTCTACCTGGCCCGTACCGCGAAGGCCCTGCAGGCCCACTGGCAGCTCATGAAGCAGTATT  
ACCTGCTGGAGGACCAGACAGTGCAGCCGCTGCCCAAAGGGGACCAAGTGTGAACTTCTCTGATGCAGAGGACC  
TGATTGATGACAGTAAGCTCAAGGACATGCGAGATGAGGTCTTGAACATGAGCTGATGGTGGCTGACCGGCGCC  
AGAAGCGAGAGATTCCGGCAGCTGGAACAGGAAGTGCATAAGTGGCAGGTGCTAGTGGACAGCATCACAGGCATGA  
GCTCTCCGGAAGTTCGACAACCAGACACTGGCAGTGTGCGGGGCCGATGGTGCAGTACCTGATGCGCTCGCGTG  
AGATCACCCCTGGGCAGAGCAACCAAGGATAACCAAGATTGATGTGGACCTGTCTCTGGAGGGTCCGGCCTGGAAGA  
TATCCCGGAAACAAGGTGTCTCATCAAGCTGAAGAACAACGGTGATTTCTTATTGCCAATGAGGGTTCGACGGCCCA  
TCTACATCGATGGACGGCCGGTGTCTGTGGCTCCAAATGGCGCCTCAGCAACAACCTCTGTGGTGGAGATCGCCA  
GCCTGCGATTTCGTCTTCTTATCAACCAGGACCTCATTGCCCTCATCAGGGCTGAGGCTGCCAAGATCACACCAC  
AGTGAGGAGTGGTGGCAGGACTCGTGGGCCCTCTCCGGCCTGTTTCCCCTGCCACTCCAGCCCCCTTGAGCTGGG  
AACTCAGGCTCCTGGAAAAACCTGGGCAGTGGGAGGCTCAGCTGCGGGCCATTGATTTGAGCCTTTGAGGGAGGA  
TAGGGCTGGCCTTTGTGAAGCCAGCAGAGGCTGAGAACCTCAGGCTTCCCTAGATCCAGAGCCCCCTCCCATCTT  
CCTCTCTCTAAAAACAACCCATACCCCCATTGCCACCTTCACTCCTGTGTCTCCAGCTGATTAGCCTCAGACTCT  
TCTTTTATTGTTTTCTTTTGTAATAAAAAGCACCAGGTTCC

3879/6881  
**FIGURE 3572A**

GGCAGGAGGCGCTAGGTAGAGCGCCGGGACCTGTGACAGGGCTGGTAGCAGCGCACAGGAAAGGCGGCTTTTAGC  
CAGGTATTTTCAGTGTCTGTAGACAAGATGGAATCATCTCCATTTAATAGACGGCAATGGACCTCACTATCATTGA  
GGGTAACAGCCAAAGAACTTTCTCTTGTCAACAAGAACAAGTCATCGGCTATTGTGGAATATTCTCCAAGTACC  
AGAAAGCAGCTGAAGAAACAAACATGGAGAAGAAGAGAAGTAACACCGAAAATCTCTCCAGCACTTTAGAAAGG  
GGACCTGACTGTGTTAAAGAAGAAGTGGGAGAACCAGGGCTGGGAGCAGAGTCTCACACAGACTCTCTACGGA  
ACAGCAGCACTGAGATTAGGCACAGAGCAGACCATCTCTGTGCTGAAGTGACAAGCCACGCTGCTTCTGGAGCCA  
AAGCTGACCAAGAAGAACAATCCACCCAGATCTAGACTCAGGTCACCTCCTGAAGCCCTCGTTTCAGGGTTCGAT  
ATCCCCACATCAAGGACGGTGAGGATCTTAAAGACCACTCAACAGAAAGTAAAAAATGGAAAATTGTCTAGGAG  
AATCCAGGCATGAAGTAGAAAAATCAGAAATCAGTGAAACACAGATGCTTCGGGCAAAATAGAGAAATATAATG  
TTCCGCTGAACAGGCTTAAGATGATGTTTGAGAAAGGTGAACCAACTCAAATAAGATTCTCCGGGCCCCAAGCC  
GAAGTGCAAGTGGAAGGAAGATCTCTGAAAACAGCTATTCTCTAGATGACCTGGAAATAGGCCCAGGTCAGTTGT  
CATCTTCTACATTTGACTCGGAGAAAAATGAGAGTAGACGAAATCTGGAACCTCCACGCTCTCAGAAACCTCTA  
TAAAGGATCGAATGGCCAAGTACCAGGCAGCTGTGTCCAAACAAAGCAGCTCAACCAACTATACAAATGAGCTGA  
AAGCCAGTGGTGGCGAAATCAAATTCATAAAATGGAGCAAAAGGAGAATGTGCCCCAGGTCCTGAGGTCTGCA  
TCACCCATCAGGAAGGGGAAAAGATTTCTGCAATGAGAATAGCCTGGCAGTCCGTTCCACCCCTGCCGAAGATG  
ACTCCCGTGACTCCAGGTTAAGAGTGAGGTTCAACAGCCTGTCCATCCCAAGCCACTAAGTCCAGATTCCAGAG  
CCTCCAGTCTTTCTGAAAGTTCTCTCCCAAAGCAATGAAGAAGTTTCAGGCACCTGCAAGAGAGACCTGCGTGG  
AATGTCAGAAGACAGTCTATCCAATGGAGCGTCTCTGGCCAAACCAGCAGGTGTTTCACATCAGCTGCTTCCGTT  
GCTCCTATTGCAACAACAACTCAGTCTAGGAACATATGCATCTTTACATGGAAGAATCTATTGTAAGCCTCACT  
TCAATCAACTCTTTAAATCTAAGGGCAACTATGATGAAGGCTTTGGGCACAGACCACACAAGGATCTATGGGCAA  
GCAAAAATGAAAACGAAGAGATTTTGAGAGAGACCAGCCAGCTTGCAATGCAAGGGAGACCCCTCACAGCCCAG  
GGGTAGAGATGCCCTATTGCTAAGGTGGGTGTCTGGCTGCAAGTATGGAAGCCAAGGCCTCTCTCAGCAGG  
AGAAGGAAGACAAGCCAGCTGAAACCAAGAAGCTGAGGATCGCCTGGCCACCCCTCACTGAACCTGGAAGTTTACG  
GAAGTGCTTGGAGGAAGGGATCAAAATGTCAAAGCCCAATGGCCTCTGAAGACGAAATCAGCAAGCCCGAAG  
TTCTGAGGATGTGATCTAGATCTGAAGAAGCTAAGACGATCTTCTTCACTGAAGGAAAGAAGCCGCCATTCA  
CTGTAGCAGCTTCATTTCAAAGCACCTCTGTCAAGAGCCCAAAACTGTGTCCCACTATCAGGAAAGGCTGGA  
GCATGTCAGAGCAGAGTGAAGAATCTGTGGGTGGAAGAGTTGCAGAAAGGAAACAAGTGGAAAATGCCAAGGCTT  
CTAAGAAGAATGGGAATGTGGGAAAAACAACCTGGCAAAACAAGAATCTAAGGAGAGACAGGGAAGAGAAGTA  
AGGAAGGTCATAGTTTGAGATGGAGAATGAGAATCTTGTAGAAAATGGTGCAGACTCCGATGAAGATGATAACA  
GCTTCTCAAACAACATCTCCACAAGAACCAAGTCTCTGAATTGGTCGAGTTTGTAGACAACACCTTTGCTG  
AAGAATTCACTACTCAGAAATCAGAAATCCAGGATGTGGAATCTGGGAGGAGAAGTGGTCAAAGAGCTCTCTG  
TGGAAGAACAGATAAAGAGAAATCGGTATTATGATGAGGATGAGGATGAAGAGTGACAAATTGCAATGATGCTGG  
GCCTTAAATTCATGTTAGTGTAGCGAGCCACTGCCCTTTGTCAAATGTGATGCACATAAGCAGGTATCCACAGC  
ATGAAATGTAATTTACTTGGAAAGTAACTTTGGAAAAGAAATTCCTTCTTAAATCAAAAACAAAACAAAAAACAC  
AAAAAACACATTCTAAATACTAGAGATAACTTTACTTAAATCTTTCATTTTAGCAGTGATGATGCATAAGTGC  
TGTAAGGCTTGTAAGTGGGAAATATTCCACCTGATAATAGCCAGATTCTACTGTATTCCAAAAGGCAATATT  
AAGGTAGATAGATGATTAGTAGTATATTGTTACACACTATTTTGGAAATTAGAGAACATACAGAAGGAATTTAGGG  
GCTTAAACATTACGACTGAATGCACCTTTAGTATAAAGGCGACAGTTTGTATATTTTAAATGAATACCAATTTAA  
TTTTTTAGTATTTACCTGTTAAGAGATTATTTAGTCTTTAAATTTTTTAGGTTAATTTTCTGTGTGATATATA  
TGAGGAATTTACTACTTTATGTCCTGCTCTCTAACTACATCTGAACCTCGACGTCCTGAGGTATAATACAACAG  
AGCACTTTTTGAGGCAATTGAAAACCAACCTACACTCTTCGGTGCTTAGAGAGATCTGCTGTCTCCCAATAAG  
CTTTTGTATCTGCCAGTGAATTTACTGTACTCCAAATGATTGCTTTCTTTCTGGTGATATCTGTGCTTCTCATA  
ATTACTGAAAGCTGCAATATTTTAGTAATACCTTCGGGATCACTGTCCCCATCTTCCGTGTTAGAGCAAAGTGA  
AGAGTTTAAAGGAGGAAGAAGAAGAACTGTCTTACACCACTTGAGCTCAGACCTCTAAACCCTGTATTTCCCTT  
ATGATGTCCCTTTTTGAGACACTAATTTTTAAATACTTACTAGCTCTGAAATATATTGATTTTTATCACAGTAT  
TCTCAGGTTGAAATTAACCAACTATAGGCCTTTTTCTTGGGATGATTTTCTAGTCTTAAGGTTTGGGGACATTA  
TAACTTGAGTACATTTGTTGTACACAGTTGATATTCCAAATGTATGGATGGGAGGGAGAGGTGTCTTAAGCTG  
TAGGCTTTTCTTTGTACTGCATTTATAGAGATTTAGCTTTAATATTTTTTAGAGATGTAAAACATTCTGCTTTCT

3880/6881  
**FIGURE 3572B**

TAGTCTTACCTAGTCTGAAACATTTTATTCAATAAAGATTTTAATTAAAAATTG

3881/6881

**FIGURE 3573**

MESSPFNRRQWTSLSLRVTAKELSLVNKNKSSAIVEIFSKYQKAAEETNMEKKRSNTENLSQHFRKGTTLTVLKKK  
WENPGLGAESHTDSLRSSTEIRHRADHPPAEVTSHAASGAKADQEEQIHPRSRRLRSPPEALVQGGRYPHIKDGED  
LKDHSTESKKMENCLGESRHEVEKSEISENTDASGKIEKYNVPLNRLKMMFEKGEPQTQKILRAQSRASGRKIS  
ENSYSLDDLEIGPGQLSSSTFDSEKNESRRNLELPRLSETSIKDRMAKYQAAVSKQSSSTNYTNELKASGGEIKI  
HKMEQKENVPPGPVEVCITHQEGEKISANENSLAVRSTPAEDDSRDSQVKSEVQQPVHPKPLSPDSRASSLSESSP  
PKAMKKFQAPARETCVECQKTVPYMERLLANQQVFHISCFRCSYCNKLSLGTIASLHGRIYCKPHFNQLFKSKG  
NYDEGFGRPHKDLWASKNENEIILERPAQLANARETPHSPGVEDAPIAKVGVLAASMEAKASSQKEKEDKPAET  
KKLRIAWPPPTLGSSSGSALEEGIKMSKPKWPPPEDEISKPEVPEDVDLDLKKLRRSSSLKERSRPFTVAASFQST  
SVKSPKTVSPPIRKGWSMSEQSEESVGGRAERKQVENAKASKKNGNVGKTTWQNKESKGETGKRSKEGHSLEME  
NENLVENGADSDDDNSFLKQQSPQEPKSLNWSSFVDNTFAEEFTTONQKSQDVELWEGEVVKELSVEEQIKRNR  
YYDEDEDEE

3882/6881  
**FIGURE 3574**

ATGGAAGATTCCCACAAGAGTACCACGTCAGAGACAGCACCTCAACCTGGTTCAGCAGTTCAGGGAGCTCACATT  
TCTCATATTGCTCAACAGGTATCATCTTTATCAGAAAGTGAGGAGTCCCAGGACTCATCCGACAGCATAGGCTCC  
TCACAGAAAGCCCCACGGGATCCTAGCACGGCGCCCATCTTACAGAAAAATTTTGAAAGACTTATCTTCTGAAGAT  
ACACGGGGCAGAAAAGGAGACGGAGAAAATTCTGGAGTTTCTGCTGCTGTCACTTCTATGTCTGTTCCTCAACTCCC  
ATCTATCAGACTAGCAGCGGACAGTACATTGCCATTGCCCCAAATGGAGCCTTACAGTTGGCAAGTCCAGGCACA  
GATGGAGTACAGGGACTTCAGACATTAACCATGACAAATTCAGGCAGTACTCAGCAAGGTACAACCTATTCTTCAG  
TATGCACAGACCTCTGATGGACAGCAGATACTTGTGCCCAGCAATCAGGTGGTCGTACAACTGCATCAGGAGAT  
ATGCAAACATATCAGATCCGAACTACACCTTCAGCTACTTCTCTGCCACAACTGTGGTGATGACATCTCCTGTG  
ACTCTCACCTCTCAGACAACTAAGACAGATGACCCCAATTGAAAAGAGAAATAAGGTTAATGAAAAACAGAGAA  
GCTGCTCGAGAATGTCTGCAGAAAGAAGAAAGAATATGTGAAATGCCTGGAACCGAGTTGCAGTCCTGGAAAAT  
CAAAATAAACTCTAATAGAAGAGTTAAAACTTTGAAGGATCTTTATTCCAATAAAAGTGTTTGA

3883/6881  
**FIGURE 3575**

MEDSHKSTTSETAPQPGSAVQGAHISHIAQQVSSLSESEESQDSSDSIGSSQKAHGILARRPSYRKILKDLSSD  
TRGRKGDGENSGVSAAVTSMSPPTPIYQTSSGQYIAIAPNGALQLASPGTDGVQGLQTLTMTNSGSTQQGTTILQ  
YAQTS DGQQILVPSNQVVVQTASGDMQTYQIRTTSPATSLPQTVVMTSPVLTTSQTTKTDDPQLKREIRLMKNRE  
AARECRRKKKEYVKLENRVAVLENQNKTLIEELKTLKDLYSNKS



3884/6881

## FIGURE 3576

GTTTTTTTCCCTTCTGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTACATCCTGACATTTCCCT  
TGTACCTGCTGAACCTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCTACTTCTTGGTGAGGTCA  
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGC GG GGGCCCT  
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG  
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT  
TTGAGCGCTTTTGTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA  
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGTGAGACGGGGAGGGG  
CTTTCTATTTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGGAATTACTTCTGGCAACAAGTCTTGATCCTG  
CCTGGCACCTTCTGTTTGTATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA  
AGCTGAAGCTGCAGCACATCCAGGCCCACTGTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA  
AATAGTGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAATGCTAA  
GTGGGAGAAGAGAAACCTTTTTTTTGGGGGGCGGTTTTTTTGGTTTGTGTGGTTTTTTTTTTTTTTTTTGGCAA  
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAGAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG  
GCCGGTCTTGAACCTCTGGGCTCAAGTGATTCTCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA  
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG  
TCTGGCTTTCAGAAATTAACATACAAGGTGCCACACCTAGTTCTGCCAGCTTTATGTCTTTTATTCCAGTATTC  
CACCAAAGTTTGTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTAAGTTGACAGTTTAGTATATCC  
ATAAACTATTTGAGGTGGTTAAGGTCTTGGGTTCAATTTCCCTTAATACTTTGCTGAATATTGTAGATTGTAGG  
CAATGAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCCTAAACATCAAGC  
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT  
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAATCATCACAAGTGCCTCTGAAAGCGAGTGTAGGTTGGTTAG  
AGGGTTTAATATTTTCTGCAATGGTTGTAGGAATTTAATAAATGTAGTATATTTCTGAGATGATTTTGTAAA  
AGTACTATTTTAAATATCAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

3885/6881  
**FIGURE 3577**

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL  
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVCTLVLC SV  
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASF SKLKLQHI  
QAPLSWELVRPHIYG YAVK

3886/6881  
**FIGURE 3578**

CAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTT  
TCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGG  
GCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCA  
AGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGCGGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCT  
TTGGTGGCGCCGGGAGTGGATTGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCC  
TTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACCGTCAACCAGA  
GTCTCCTGACTCCCCTCAACCTGCAAATTGACCCCGCCATCCAGCGGGTGCGGGCCGAGGAGCGTGAGCAGATCA  
AGACCCTCAACAACAAGTTTGCTCCTTCATCGACAAGGTGCGGTTTCTAGAGCAGCAGAACAAGGTTCTGGACA  
CCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACA  
TCAACAACCTCAGGAGGCAGCTGGACAACAT

3887/6881  
**FIGURE 3579**

CCTGCCTCTCGCCTCCAGCCTCCAACGCTCGCCACAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACC  
ACCATCAGGAGCCACAGCAGCAGCCGCCGGGTTTCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCT  
GGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGGCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTT  
GGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGC  
GGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATTTGGTTTCGGTGGTGGAGCC  
GGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCC  
CCTGGAGGCATCCAAGAGGTCACCGTCAACCAGAGTCTCCTGACTCCCCCTCAACCTGCAAATTGACCCCGCCATC  
CAGCGGGTGGCGGGCCGAGGAGCGTGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTG  
CGGTTCCCTAGAGCAGCAGAACAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTG  
AGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTCGGGGAA  
CGGGGCCCGCTGGACTCGGAGCTGAGAAACATGCAGGACCTGGTGGAGGACCTCAAGAACAATATGAGGATGAA  
ATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGATGCTGCCATCATGAACAAG  
GTTGAACTGCAAGCCAAGGCAGACACTCTCACAGATGAGATCAACTTCCTGAGAGCCTTGTATGATGCAGAGCTG  
TCCCAGATGCAGACCCACATCTCAGACACATCCGTGGTGTATCCATGGACAACAACCGCAACCTGGACCTGGAC  
AGCATCATCGCTGAGGTCAAGGCCCAATACGAGGAGATTGCTCAGAGGAGCCGGGCTGAGGCTGAGTCTGGTAC  
CAGACCAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCGCAACACCAAGCAGGAGATT  
GCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCATGTCAAGAAGCAGTGTGCCAGCCTGCAG  
GCTGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCACTCAAGGATGCTAAGAACAAGCTGGAAGGGCTGGAG  
GATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCCGGCTGCTGAAGGAGTACCAGGAGCTGATGAATGTCAAGCTG  
GCCCCTGGATGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGTGCAGGCTGAATGGCGAAGGCGTT  
GGACAAGTCAACGTCTCTGTAGTACAGTCCACCATCTCCAGTGGCTATGGCGGTGCCAGCGGTGTCGGCAGTGGC  
TTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCATTGGAGGTGGCTTCAGTTCCAGCAGT  
GGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAAGTACACCACCACCTCCTCC  
TCCAGCAGGAAGAGCTACAAGCACTAAAGTGTGCTGCCCTCCAGCTCTCGGTCCCACAGTCTCAGGCCCTTCTCTGG  
CTGCAGAGCCGCTCTCCTCAGGTTGCCTATCCTCTCCTGGCCTCTAGTCTTCCCTGCTCTCCGAGGTAGAGCTGGG  
TATGGATGCTTAGTGCCTCACTTCTCTGTCTATACCTGCCCCATCTGAGCACCCATTGCTCACCATCAGATC  
AACCTTTGATTTTACATCATAATGTATTACCAATGGAGCTTCACTTTGTTACTAAATTATTAATTTCTTGCCTC  
CAAAATTGTTCTCTCTGAGGCTGAGCATTATAAGAAAATGATCTCTGTTCCCTTTTCATTACTGAAAATCGCCTGG  
GGCTTATTTTCAACAACCTTCCACTTATTTTCCATTGGCCCCCAAACCTCCCTAAGTTAAAAGTATTGTGAACCCC  
CGCCCCGAGTATGCATGGAAGCACAAAGTGACTAGTCGTATGATGTACACAGTCTTCTCCCTGTGATGATTTCT  
CTGCTCTTTGCTCTTTGTAATTTCTAAATAAAGCAGGTTTTAGAATAA

3888/6881  
**FIGURE 3580**

CATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCT  
CCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCGTCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGC  
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGG  
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT  
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCC  
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTACCGTCAACCAGAGTCTCCTGACTCCCCCTCAACCT  
GCAAATCGATCCCACCATCCAGCGGGTGGCGGCTGAGGAGCGTGAACAGATCAAGACCCTCAACAACAAGTTTGC  
CTCCTTCATCGACAAGGTGCGGTTCTTGGAGCAGCAGAACAAAGGTCTTGAAACAAAGTGGACCCTGCTGCAGGA  
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCT  
GGACAGCATGTGTCGGGGAACGGGGCCGCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAA  
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGA  
TGCTGCCTACATGAACAAGGTGAACTGCAAGCCAAGGCAGACACTCTCACAGACGAGATCAACTTCTGAGAGC  
CTTGTATGATGCAGAGCTGTCCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGTGTCTCATGGACAACAA  
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGAAGCCGGGC  
TGAGGCTGAGTCTTGGTACCAGACCAAGTACGAGGAGCTGCAGGTCACAGCAGGCAGACATGGGGACGACCTGCG  
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA  
GCAGTGGCCCAACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAA  
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA  
GCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGAAGAGTGCAG  
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC  
CAGTGGTGTGCGCAGTGGCTTAGGCCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG  
TGGCTTCAGTTCCAGCAGTGGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCACCATCAA  
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTATAAGCACTAAAGTGCCTCTGCTAGCTCTCGGTCCCACAG  
TCCTCAGGCCCCCTCTCTGGCTGCAGAGCCCTCTCCTCAGGTTGCCTTTCTCTCTCTCTCTATACCATCTGAGACCC  
TGTCCCAGGTAGAGCTGGGTATGGATGCTTAGTGCCCTCACTTCTTCTCTCTCTCTATACCATCTGAGACCC  
ATTGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGTAATCACCAGTGGAGCTTCACTGTACTAAATT  
ATTAAATTTCTTGCTCCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTCATTG  
CAGAAAATTGCCAGGGGCTTATTTCAACAACCTTCCACTTACTTTCCACTGGCTCTCAAACCTCTCTAACTTATA  
AGTGTGTGAACCCCCACCCAGGCAGTATCCATGAAAGCACAAGTGAAGTACTAGTCTATGATGTACAAAGCCTGTAT  
CTCTGTGATGATTTCTGTGCTCTTCGCTGTTTGCAATTGCTAAATAAA

3889/6881  
**FIGURE 3581**

TCGACAGCTCTCTCGCCCAGCCCAGTTCTGGAAGGGATAAAAAGGGGGCATCACCGTTCCTGGGTAACAGAGCCA  
CCTTCTGCGTCCTGCTGAGCTCTGTTCTCTCCAGCACCTCCCAACCCACTAGTGCCTGGTTCTCTTGCTCCACCA  
GGAACAAGCCACCATGTCTCGCCAGTCAAGTGTGTCTTCCGGAGCGGGGCGAGTCGTAGCTTCAGCACCGCCTC  
TGCCATCACCCGCTGTGTCTCCCGCACEAGCTTCACCTCCGTGTCCCGGTCCGGGGGTGGCGGTGGTGGCTT  
CGGCAGGGTCAGCCTTGCGGGTGCTTGTGGAGTGGGTGGCTATGGCAGCCGGAGCCTCTACAACCTGGGGGGCTC  
CAAGAGGATATCCATCAGCACTAGTGGTGGCAGCTTCAGGAACCGGTTTGGTGTGGTGGTGGAGGCGGCTATGG  
CTTTGGAGGTGGTGCCGGTAGTGGATTTGGTTTTCGGCGGTGGAGCTGGTGGTGGCTTTGGGCTCGGTGGCGGAGC  
TGGCTTTGGAGGTGGCTTCGGTGGCCCTGGCTTTCTGTCTGCCCTCCTGGAGGTATCCAAGAGGTCACTGTCAA  
CCAGAGTCTCCTGACTCCCCTCAACCTGCAAATCGACCCCAGCATCCAGAGGGTGAGGACCGAGGAGCGCGAGCA  
GATCAAGACCCTCAACAATAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCTTGGAGCAGCAGAACAAGGTTCT  
GGACACCAAGTGGACCCCTGTGTGAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCA  
GTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGGGAACGGGGCCGCCTGGACTCAGAGCTGAGAAA  
CATGCAGGACCTGGTGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGAATGA  
GTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATGCACT  
GATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCAGATGCAGACGCATGTCTCTGACAC  
CTCAGTGGTCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCCAGTA  
TGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCTGGTATCAGACCAAGTATGAGGAGCTGCAGCAGAC  
AGCTGGCCGGCATGGCGATGACCTCCGCAACACCAAGCATGAGATCTCTGAGATGAACCGGATGATCCAGAGGCT  
GAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAATCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGG  
GGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACAT  
GGCCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCG  
CAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGAAGGAGTTGGACCAGTCAACATCTCTGTTGTACAAG  
CAGTGTTCCTCTGGATATGGCAGTGGCAGTGGCTATGGCGGTGGCCTCGGTGGAGGTCTTGGCGGCGGCCCTCGG  
TGGAGGTCTTGCCGGAGGTAGCAGTGGAAAGCTACTACTCCAGCAGCAGTGGGGGTGTCCGCCTAGGTGGTGGGCT  
CAGTGTGGGGGGCTCTGGCTTCAGTGCAGCAGTGGCCGAGGGCTGGGGGTGGGCTTTGGCAGTGGCGGGGGTAG  
CAGCTCCAGCGTCAAATTTGTCTCCACCACCTCCTCCTCCCGGAAGAGCTTCAAGAGCTAAGAACCTGCTGCAAG  
TCACTGCCTTCCAAGTGCAGCAACCCAGCCCATGGAGATTGCCTCTTCTAGGCAGTTGCTCAAGCCATGTTTTAT  
CCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCAGGAGAGCCCCATTCCC  
AGCCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTCCACAGCATGGCCCT  
GCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATAAAACAGAATCCCCACCCCAATCCCAAATTTTGT  
TTTGGTTCTAACTACCTCCAGAATGTGTTCAAATAAATGCTTTTATAATAT

3890/6881  
**FIGURE 3582**

GTGGGCTCAGTGTGGGGGGCTCTGGCTTCAGTGCAAGCAGTGGCCGAAGCTTCAAGAGCTAAGAACCTGCTGCAA  
GTCAGTGCCTTCCAAGTGCAGCAACCCAGCCCATGGAGATTGCCTCTTCTAGGCAGTTGCTCAAGCCATGTTTTA  
TCCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCCAGGAGAGCCCCATTCC  
CAGCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGCATGGCCCC  
TGCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATCAAAACAGAATCCCCACCCCAATCCCAAATTTTG  
TTTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAATA

3891/6881  
**FIGURE 3583**

GTGCGGTTCCCTGGAGCAGCAGAACAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACT  
GTGAGGCAGAACTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGG  
GAACGGGGCCGCTGGACTCAGAGCTGAGAAACATGCAGGACCTGGTGAAGACTTCTAGGCAGTTGCTCAAGCC  
ATGTTTTATCCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCCAGGAGAGC  
CCCATTCCCAGCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGC  
ATGGCCCCTGCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATCAAAACAGAATCCCCACCCCAATCCC  
AAATTTTGTTTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAAT



3892/6881  
**FIGURE 3584**

GAAACATGCAGGACCTGGTGGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGA  
ATGAGTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATG  
CACTGATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCCAGATGCAGACGCATGTCTCTG  
ACACCTCAGTGGTCCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCC  
AGTATGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCCTGGTATCAGACCAAGTCCGCAACACCAAGCA  
TGAGATCTCTGAGATGAACCGGATGATCCAGAGGCTGAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAA  
TCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGGGGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGA  
GCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACAC  
CAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCGCAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGA  
AGGAG

3893/6881

**FIGURE 3585**

CCGCGCCTTCAGCTGCATCTCGGCCTGCGGGCCCCCGGCCCGCGCTGCTGCATCACCGCCGCCCCCTACCGCGG  
CGTCTCCTGCTACCGCGGCCTCACCGGAGGCTTCGGCAGCCACAGCGTGTGCGGGGGCTTCCGCGCCGGCTCCTG  
CGGACGCAGCTTCGGCTACCGCTCCGGGGGCGTGTGCGGACCCAGCCCCCATGCATCGCCACCGTGTGGTCAA  
CGAGAGCCTCCTCACGCCCCCTCAACCTGGAGATCGACCCCAACGCACAGTGCCTGAAGCAGGAGGAGAAGGAGCA  
GATCAAGTCCCTCAACAGCAGGTTTCGCGGCCTTCATGGACAAGGTGGGTGTCCTGGAGCAGCAGAACAAAGCTGCT  
GGAGACAAAGCTGCAGTCTTCCAGAACCGTGAGTGTGCAAGAGCAACCTGGAGCCTCTGTTGAGGGCTACAA  
CTCTGCGACGGGAGGCCGAGTGCATGGAAGCCAACAGTGGGAGGCTGGCCTCAGAGCTCAACCAGTGCAGGAGG  
TGCTGGAGGGTTACAAGAAGAAGTATGAGGAGGAGGTTTCTCTGAGAGCAACAGCTGAGAACGAGTTTGTGGCTT  
TGAAGAAGGATGTGGACTGCGCCTACCTCCGCAAGTCAGACCTGGAGGCCAACGTGGAGGCCCTGATCCAGGAGA  
TCGACTTCCTGAGGCGGCTGTATGAGGAGGAGATCCTCATTCTCCAGTCGCACATCTCAGACACCTCCGTGGTTG  
TCAAGCTGGACAACAGCCGGGACCTGAACATGGACTGCATCATTGCCGAGATTAAGGCACAGTATGACCACATTG  
TCACCCGCAGCCGGGCCGAGGCCGAGTCTGGTACCGCAGCAAGTGTGAGGAGATGAAGGCCACGGTGATCAGGC  
ACGGGGAGACCCTGCGCCGCACCAAGGAGGAGATCAATGAGCTGAACCGCATGATCCAAAGGCTGACGGCCGAGG  
TGGAGAATGCCAAGTGCCAGAACTCCAAGCTGGAGGCCGCGGTGGCCCACTCTGAGCAGCAGGGTGAGGCGGGCC  
TCAGTGATGCCCCTGCAAGCTGGCCGAGCTGGAGGGCGCCCTGCAGAAGGCCAAGCAGGACATGGCCTGCCTGA  
TCAGGGAGTACCAGGAGGTGATGAACTCCAAGCTGGGCCTGGACATCGAGATCGCCACCTACAGGCGCCTGCTGG  
AGGGCGAGGAGCAGAGGCTATGTGAAGGCATTGGGGCTGTGAATGTCTGTGTGTCAGCAGCTCCCGGGGCGGGTGC  
TGTGCGGGGACCTCTGCGTGTGAGGCTCCCGGCCAGTACTGGCAGTGTCTGCAGCGCTCCGCTGCAACGGGAAC  
GTGGCGGTGAGCACCGGCCTGTGTGCGCCCTGCGGCCAATTGAACACCACCTGCGGAGGGGGTTCTTGCGGCGTG  
GGCTCCTGTGGTATCAGCTCCCTGGGTGTGGGGTCTTGCAGCAGAGCTGCCGAAATGTTAGGCACCCCAACTC  
AAGTCCAGGCCCCAGGCGTCTTTCTGCCCTGCCTTGCTTGGCCCATCCAGTCCAGGCGCCTGGAGCAAGTGCT  
CAGCTACTTCTCCTCCACTTTGAAAGACCCCTCCCACTCCTGGCCTCACATTTCTCTGTGTGATCCCCCACTTC  
TGGGCTCTGCCACCCACAGTGGGAAAGGCACCCTAGAAAGAAGTCCGTGGCACCATAGGAAGGGGCTCAGGAGC  
AGGAAGGGCCAGGACCAGAACCTTGCCACGGCAACTGCCTTCTGCCTCTCCCTTCTCCTCTGCTCTTGATC  
TGTTTTCAATAAATTAATGTAGCC

3894/6881  
**FIGURE 3586**

GCGAGTGC GCGCTCCTCCTCGCCCGCCGCTAGGTCCATCCCGGCCAGCCACCATGTCCATCCACTTCAGTCCC  
CGGTATTACCTCGCGCTCAGCCGCCTTCTCGGGCCGCGGCCAGGTGCGCCTGAGCTCCGCTCGCCCCGGCG  
GCCTTGGCAGCAGCAGCCTCTACGGCCTCGGCGCCTCACGGCCGCGCGTGCCGTGCGCTCTGCCTATGGGGGCC  
CGGTGGGCGCCGGCATCCGCGAGGTACCATTAACCAGAGCCTGCTGGCCCCGCTGCGGCTGGACGCCGACCCCT  
CCCTCAGCGGGTGCGCCAGGAGGAGAGCGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACA  
AGGTGCGGTTTCTGGAGCAGCAGAACAAGCTGCTGGAGACCAAGTGGACGCTGCTGCAGGAGCAGAAGTCGGCCA  
AGAGCAGCCGCCTCCCAGACATCTTTGAGGCCAGATTGCTGGCCTTCGGGGTCAGCTTGAGGCACTGCAGGTGG  
ATGGGGGCCGCTGGAGGCGGAGCTGCGGAGCATGCAGGATGTGGTGGAGGACTTCAAGAATAAGTACGAAGATG  
AAATTAACCACCGCACAGCTGCTGAGAATGAGTTTGTGGTGCTGAAGAAGGATGTGGATGCTGCCTACATGAGCA  
AGGTGGAGCTGGAGGCCAAGGTGGATGCCCTGAATGATGAGATCAACTTCCTCAGGACCCTCAATGAGACGGAGT  
TGACAGAGCTGCASTCCAGATCTCCGACACATCTGTGGTGCTGTCCATGGACAACAGTCGCTCCCTGGACCTGG  
ACGGCATCATCGCTGAGGTCAAGGCGCAGTATGAGGAGATGGCCAAATGCAGCCGGGCTGAGGCTGAAGCCTGGT  
ACCAGACCAAGTTTGAGACCCTCCAGGCCAGGCTGGGAAGCATGGGGACGACCTCCGGAATACCCGGAATGAGA  
TTTCAGAGATGAACCGGGCCATCCAGAGGCTGCAGGCTGAGATCGACAACATCAAGAACCAGCGTGCCAAGTTGG  
AGGCCGCCATTGCCGAGGCTGAGGAGCGTGGGGAGCTGGCGCTCAAGGATGCTCGTGCCAAGCAGGAGGAGCTGG  
AAGCCGCCCTGCAGCGGGCAAGCAGGATATGGCACGGCAGCTGCGTGAGTACCAGGAACCTCATGAGCGTGAAGC  
TGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGAGCCGTTGGCTGGAGATGGAG  
TGGGAGCCCGTGAATATCTCTGTGATGAATTCCACTGGTGGCAGTAGCAGTGGCGGTGGCATTGGGCTGACCCTCG  
GGGGAACCATGGGCAGCAATGCCCTGAGCTTCTCCAGCAGTGCGGGTCCTGGGCTCCTGAAGGCTTATTCCATCC  
GGACCGCATCCGCCAGTCGCAGGAGTGGCCGCGACTTGA

3895/6881

**FIGURE 3587**

MSIHFSSPVFTSRSAAFSGRGAQVRLSSARPGGLGSSSLYGLGASRPRVAVRSAYGGPVGAGIREVTINQSLAP  
LRLDADPSLQVRVQEESQIKTLNNKFASFIDKVRFLEQONKLETKWTLLEQKSAKSSRLPDIFEAQIAGLRG  
QLEALQVDGGRLEAELRSMQDVVEDFKNKYEDEINHRTAAENEFVVLKKDVDAAYMSKVELEAKVDALNDEINFL  
RTLNETELTELQSQISDTSVVLSDNSRSLDLGIIAEVKAQYEEMAKCSRAEAEAWYQTKFETLQAQAGKHGDD  
LRNTRNEISEMNRAIQRLQAEIDNIKNQRAKLEAAIAEAEERGELALKDARAKQEELEAALQRGKQDMARQLREY  
QELMSVKLALDIEIATYRKLEGEESRLAGDGVGAVNISVMNSTGGSSSGGGIGLTLGGTMGSNALSFSSSAGPG  
LLKAYSIRTASASRRSARD

3896/6881  
**FIGURE 3588**

TTCCGGTCCCGGCTCAGCCTCCGACCCAGGTGGTCTGGAGCCTGCCGGGAGAGTGGTGGCATCTGAGAGGCTGGT  
CGTGGACTGTGGTTGGGGGAGGTGGGAGCTGTTTTAACCGTGTGCCCCCTCTCCTGTGCCGGCGTGGGCATCCCC  
CGGGGCAGTGGAACGCGGGCGCTCCTCCAGCTTCCGAGTCCAGCCAGCCTGGGCGCGGGGCGCCGCCCCGAGAC  
ACCCGAGGAGTCCGTTCCCTCCCTGGTTACGTGGACTGTGGAGCTGGTCTCTTGTGGCTCAGCGCCGTGCGGAGGT  
TGAAGCGTACCTGCGGAGGTGCGACCAAGGCGTGAGGAGGAGGAGGAAGGGCATGAGCCGAGCTTGAGGAATCCG  
TGCTCCAACTCTACACTCAAGGGTGGCCCTTGGGTAGGGTGAAGATCCCCTGTCTTTATCCTAGTTCACACCT  
TGGTGTGGGTACTGGGTGCAGGATGAAGTGTGCTCGCTCGGAGGTGCTGGAGGTGTCGGTGGAGGGGCGGCAGGTGG  
AGGAGGCCATGCTGGCTGTGCTGCACACGGTGCTTCTGCACCGCAGCACAGGCAAGTTCACCTACAAGAAGGAGG  
GCACCTACTCCACTGGCACCGTGGGCACCCAGGATGTTGACTGTGACTTCATCGACTTCACCTTATGTGCGTGTCT  
CTTCTGAGGAAGTGGATCGTGCCCTGCGCAAGGTTGTTGGGGAGTTCAAGGATGCACTGCGCAACTCTGGTGGCG  
ATGGGCTGGGGCAGATGTCCTTGGAGTTCTACCAGAAGAAGAAGTCTCGCTGGCCATTCTCAGACGAGTGCATCC  
CATGGGAAGTGTGGACGGTCAAGGTGCATGTGGTAGCCCTGGCCACGGAGCAGGAGCGGCAGATCTGCCGGGAGA  
AGGTGGGTGAGAACTCTGCGAGAAGATCATCAACATCGTGGAGGTGATGAATCGGCATGAGTACTTGCCCAAGA  
TGCCACACAGTCGGAGGTGGATAACGTGTTTGACACAGGCTTGCGGGACGTGCAGCCCTACCTGTACAAGATCT  
CCTTCCAGATCACTGATGCCCTGGGCACCTCAGTCACCACCACCATGCGCAGGCTCATCAAAGACACCCCTTGCCC  
TCTGAGCGTCGCTGGATCTCTGGGAGCTCCTTGATGGCTCCCAGACCTTGGCTTTTGGGAATTGCACCTTTGGGC  
CTTTGGGCTCTGGAACCTGCTCTGGGTCAATTGGTGAGACTTGGAAGGGGCAGCCCCGCTGGCTTCTTGTTTTG  
TGGTTGCCAGCCTCAGGTATCCTTTTAATCTTGTGACGGTTCAGTCCTGCCTCTACTGTCTCTCCATAGCCC  
TGGTGGGGTCCCCCTTCTTCTCCACTGTACAGAAGAGCCACCCTGGGATGGGAATAAAGTTGAGAACATG

3897/6881

**FIGURE 3589**

MNCRSEVLEVSVEGRQVEEAMLAVLHTVLLHRSTGKFHYKKEGTYSTGTVGTQDVDCDFIDFTYVRVSSEELDRA  
LRKVVGEFKDALRNSGGDGLGQMSLEFYQKKKSRWPFSDCEIPWEVWTVKVHVVALATEQERQICREKVGEKLCE  
KIINIVEVMNRHEYLPKMPTQSEVDNVFDTGLRDVQPYLYKISFQITDALGTSVTTMRRLIKDTLAL

3898/6881  
**FIGURE 3590**

ATGAGCAGACAAGCCAGCAAGACATCTGGTGGCGGGAGCCAGGGTTTCTCCGGCCGCTCTGCTGTGGTCTCCGGC  
AGCAGCAGGATGAGCTGTGTGGCCCACTCTGGGGGAGCTGGCGGAGGGGCCTATGGCTTCCGGAGCGGAGCAGGT  
GGCTTTGGCAGTCGCAGCCTCTACAACCTGGGCGGCAACAAGAGCATCTCCATCAGCGTGGCAGCTGGCGGCTCC  
CGGGCTGGAGGCTTTGGGGGAGGGCGGAGCAGCTGTGCCTTTGCAGGTGGCTATGGAGGTGGCTTTGGGAGCGGC  
TATGGAGGTGGCTTTGGTGGTGGCTTTGGTGGTGGCAGAGGAATGGGAGGTGGCTTTGGTGGAGCTGGTGGCTTT  
GGAGGGCTGGTGGCTTTGGAGGGGCTGGTGGCTTTGGTGGTCCTGGTGGCTTTGGTGGGTCTGGTGGCTTTGGT  
GGGCTGGCAGCTTTGGGCAGTCTGGTGGCTTTGGCCCTGGGGGCTTTCCCTGGGGGAATTCAGGAAGTGACTATC  
AACCAGAGTCTCCTGCAGCCCCCTCAATGTGGAGATCGACCGCCAGATTGGGCAAGTAAAGGCCAGGAGCGGAAA  
CAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATTGACAAGGTGCGGTTCCCTGGAGCAACAGAACAAAGTC  
CTGGAGACCAAGTGAACCTGCTCCAGCAGCAGGGCACAAGTTCCATCTCAGGCACAAACAACCTTGAGCCTCTT  
TTTGAGAATCACATCAACTACCTGCGGAGCTACCTGGACAACATCCTCGGGGAGAGAGGGCGCCTGGACTCTGAG  
CTGAAGAACATGGAGGACCTGGTGAAGACTTCAAGAAGAAATATGAGGATGAAATCAATAAACGTACAGCTGCT  
GAGAATGAATTTGTGACTCTGAAGAAGGATGTGGACAGTGCCTATATGAACAAGGTGGAGCTTCAGGCCAAAGTG  
GATGCCCTTGATAGATGAGATCGACTTCTTAAGGACCCTCTACGACGCTGAGCTATCTCAGATGCAGAGCCACATC  
AGTGACACATCTGTGGTGTCTGCCATGGACAATAATCGCTCCCTGGACCTGGACAGCATCATTGCTGAAGTTTCGT  
GCACAGTATGAGGATATCGCTCAGAGAAGCAAGGCCGAAGCTGAGGCCCTGTACCAGACCAAGTTGGGGGAGCTG  
CAGACCACGGCTGGCAGGCATGGGGATGACCTAAGAAATACCAAGAGCGAGATCATAGAGCTCAACAGAATGATC  
CAGAGGCTGCGGGCAGAGATCGAGGGTGTCAAGAAGCAGAATGCCAACCTGCAGACGGCCATTGCCGAGGCCGAG  
CAGCATGGAGAGATGGCCCTCAAGGATGCCAATGCCAAGCTCCAAGAGCTGCAGGCTGCTCTACAGCAGGCCAAG  
GATGACCTGGCGCGGCTGCTACGTGACTACCAGGAGCTGATGAATGTCAAGCTGGCCCTGGACGTGAGATCCCCC  
CCTACCGCAGCTGCTGGAGGGCGAGGAGTACAGCAGGATGTCTGGAGAGTGTCCGAGTGTCTCAGCATCTCCGT  
GGTCAGCAGCAGCAGACTTCCGCCTCCGCAGGTGGCTATGGAGGAGGTACGGCGGAGGCATGGGCGGTGGTTT  
AGGAGGTGGCTTCAGTGCGGGCGCGGCTCAGGCAGTGGCTTTGGCCGGGAGGCGGCGGTGGAATCGGCGGTGG  
ATTTGGCGGCGGCAGCAGCGGTTTCAGCGGTGGCAGCGGCTTTGGCTCCATCTCTGGCGCCCGCTATGGAGTCAG  
TGGCGGGGGCTTCAGCTCGGCCAGCAACCGGGGCGGCAGCATCAAGTTCTCCAGTCTCTCCAGTCTCTCCAGCG  
CTACTCCAGATAAAGAGCACGCATCAGCATCGCAGCCACTCCAGCGCCTCCCCTCCGCTCCCCACGCCCCCATAT  
TGGCAACACCCCCAGCGCCACCCCATGCTCCCCAAGAACGCGGCTCTGCGCTGGAAGGCTTGTGGCCTCTTGCTC  
CTCCTTCCAGATCCCCGGCCAAAGCCAGTCACGAGAATTTAGGCTCTTCTCTCCGGCTCCAGCCTGTGCCTGTG  
ATTGTCCAGGTGTGGCCTAGGCCGCCACCTTCTGCTGCCCCGGAGTCCCCTCCCTGGGTGGGATGCTCACTACAG  
CTCTGATGTATATAGCACACAGCCCCCTCCGCCCTCCGGTCTGTGCGCAATAAA

3899/6881

**FIGURE 3591**

CTGCTCCTTCTAGGATCTCCGCCTGGTTTCGGCCCCGCTGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGA  
CCCAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCCGGTT  
CCCCGATCAGCTCCTCGAGCTTCTCCCGAGTGGGCAGCAGCAACTTTCGCGGTGGCCTGGGCGGCGGCTATGGTG  
GGGCCAGCGGCATGGGAGGCATCACCGCAGTTACGGTCAACCAGAGCCTGCTGAGCCCCCTGTCTTGAGAGTGG  
ACCCCAACATCCAGGCCGTGCGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCA  
TAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGA  
CGGCTCGAAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCC  
AGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGG  
ATGAGATCAATAAGCGTACAGAGATGGAGAACGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACATGA  
ACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACCGACGAGATCAACTTCCTCAGGCAGCTATATGAAGAGG  
AGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGCTGTCCATGGACAACAGCCGCTCCCTGGACA  
TGGACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCGCAGCCGGGCTGAGGCTGAGAGCA  
TGTACCAGATCAAGTATGAGGAGCTGCAGAGCCTGGCTGGGAAGCACGGGGATGACCTGCGGCGCACAAAGACTG  
AGATCTCTGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCC  
TGGAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAAGGATGCCAACGCCAAGTTGTCCGAGC  
TGGAGGCCGCCCTGCAGCGGGCCAAGCAGGACATGGCGCGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCA  
AGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGGA  
TGCAGAACATGAGTATTCATACGAAGACCACAGCGGCTATGCAGGTGGTCTGAGCTCGGCCCTATGGGGGCCCTCA  
CAAGCCCCGGCCTCAGCTACAGCCTGGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGCTCCTTCAGCCGCACCA  
GCTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACACGTGATGGGAAGCTGGTGTCTGAGTCTCTGACGTCC  
TGCCCAAGTGAACAGCTGCGGCAGCCCCCTCCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGGGAAGGAGGCC  
GCTATGCAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCACCTGGGGAGTTT  
ACTACCTGGGGACCCCCCTTGCCCATGCCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTTTTGGTCCAAAT  
AAAACCTCAGCTAGCTCTGCCAAACCC



3900/6881  
**FIGURE 3592**

MSIRVTQKSYKVSTSGPRAFSSRSYTS GP GSRISSSSF SRVGSSNFRGGLGGGYGGASGMGGITAVTVNQSLSP  
LVLEVDPNIQAVRTQEKEQIKTLNNKFASFIDKVRFLEQONKMLETKWSLLQQKTARSNMDNMFESYINNLRQ  
LETLGQEKLEAEELGNMQGLVEDFKNKYEDEINKRTEMENEFVLIKKDVDEAYMNKVELESRLGLELTDEINFLR  
QLYEEEIRELQSQISDTSVVLSDNSRSLDMSIIAEVKAQYEDIANRSRAEAESMYQIKYEELQSLAGKHGDDL  
RRTKTEISEMNRNISRLQAEIEGLKGQRASLEAAIADAEQRGELA IKDANAKLSELEAALQRAKQDMARQLREYQ  
ELMNVKLALDIEIATYRKLEGEESRLESGMQNMSIHTKTTSGYAGGLSSAYGGLTSPGLSYSLGSSFGSGAGSS  
SFSRTSSRAVVVKIETRDGKLVSESSDVLPK

3901/6881  
**FIGURE 3593**

CGGGGTCGTCCGCAAAGCCTGAGTCCTGTCCTTTCTCTCTCCCCGGACAGCATGAGCTTCACCACTCGCTCCACC  
TTCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGGCGCCCAGCTACGGCGCCCGGGCGGTTCAGCAGCGCGGCC  
AGCGTCTATGCAGGCGCTGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCAGGGGGGGCATG  
GGGTCCGGGGGCTGGCCACCGGGATAGCCGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACC  
ATGCAAAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGAGACCGAGAACCGGAGGCTG  
GAGAGCAAAATCCGGGAGCACTTGGAGAAGAAGGGACCCCAGGTCAGAGACTGGAGCCATTACTTCAAGATCATC  
GAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCCGCATCGTTCTGCAGATTGACAATGCCCGT  
CTTGCTGCTGATGACTTTAGAGTCAAGTATGAGACAGAGCTGGCCATGCGCCAGTCTGTGGAGAACGACATCCAT  
GGGCTCCGCAAGGTCATTGATGACACCAATATCACACGACTGCAGCTGGAGACAGAGATCGAGGCTCTCAAGGAG  
GAGCTGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTG  
ACCGTGGAGGTAGATGCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGGCCCAATATGACGAG  
CTGGCTCGGAAGAACCAGAGGAGCTAGACAAGTACTGGTCTCAGCAGATTGAGGAGAGCACCACAGTGGTCACC  
ACACAGTCTGCTGAGGTTGGAGCTGCTGAGACGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCTTGGAGATC  
GACCTGGACTCCATGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAGGGAGGTGGAGGCCCGCTACGCCCTA  
CAGATGGAGCAGCTCAACGGGATCCTGCTGCACCTTGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGACAGCGC  
CAGGCCCAGGAGTATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCTG  
CTGGAAGATGGCGAGGACTTTAATCTTGGTGATGCCTTGGACAGCAGCAACTCCATGCAAACCATCCAAAAGACC  
ACCACCCGCGGATAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGGCATTAAGCCAGC  
AGAAGCAGGGTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTTCAGAGTTCATTGGATGTC

3902/6881  
**FIGURE 3594**

MSFTTRSTFSTNYRSLGSVQAPSYGARPVSSAASVYAGAGGSGSRISVSRSTSFRGGMGSGGLATGIAGGLAGMG  
GIQNEKETMQSLNDRLASYLDRVRSLETENRRLESKIREHLEKKGPQVRDWSHYFKIIEDLRAQIFANTVDNARI  
VLQIDNARLAADDFRVKYETELAMRQSVENDIHGLRKVIDDTNITRLQLETEIEALKEELLFMKKNHEEEVKGLQ  
AQIASSGLTVEVDAPKSQDLAKIMADIRAQYDELARKNREELDKYWSQQIEESTTVVTTQSAEVGAAETTLTEL  
RTVQSLEIDLDSMRNLKASLENSLREVEARYALQMEQLNGILLHLESELAQTRAEGORQAQYEYALLNIKVKLEA  
EATYRRILLEDGEDFNLGDALDSSNSMQTIQKTTTTRIVDGKVVSETNDTKVLRH

3903/6881  
**FIGURE 3595**

AGATAAGAGCTGGACGGAGGCTAAAGCGGCAGCCCCAGCTTCGCGCCCCGCCAGTCCCTTTCCCTGCTGGGGA  
TCCCCCTCTTCCCCGCCACCCCTTACCCGCATGCAGCCAGCGCCCTATGCTAGCCCTCCCCCTCCCCCCTG  
CTGGAGCGGGGCGCCCGGGGGAGGAGGGGAATCGGCTGCGGGTCCTTGGTGTTCAGCACCAGTTTCCT  
TCAAGCCGGGTGCGCATGTACGACTGTATGAAACGTTTGCCCGGGTCCGCGACGGCTGTACGGGGCGGCCGG  
CCCCGGGCCGGCTTGCTGCGCAGAGCCACCGCGGCTCCTGTTTCCCGGACTTGAATCTTTGCTGGCCGCAA  
CCCCCAGCCTGCAATCGGTGGAGACACAGAGCACCAGCTCAGAGGAGATGGTGCCAGCTCGCCCTCGCCCCCT  
CCGCTCCTCGGGTCTACAAGCCATGCTTCGTGTGCAATGACAAGTCTCTGGCTACCACTATGGGGTCAGCTCT  
TGTGAAGGCTGCAAGGGCTTCTTTGCGCAAGCATCCAGAAGAATGTTGTACACGTGTACCCGCGACAAAAAC  
TGTATCATCAACAAGGTGACCAGGAATCGCTGCCAGTACTGCCGGCTACAGAAGTGCTTCGAAGTGGGCATGTCC  
AAGGAAGCTGTGCGAAATGACCGGAACAAGAAGAAGAGGTTGAAGGAAGAAGGGTCACCTGACAGCTATGAG  
CTGAGCCCTCAGTTAGAAGAGCTCATCACCAAGGTGAGCAAGCCCATCAGGAGACTTTCCCTCGCTCTGCCAG  
CTGGGCAAGTATACCACGAAGTCCAGTGCAGACCACCGCTGCAGCTGGATCTGGGGCTGTGGGACAAGTTCAGT  
GAGCTGGCTACCAAGTGCATCATCAAGATCGTGGAGTTTGCCAAGCGGTTGCCTGGCTTTACAGGGCTCAGCATT  
GCTGACCAGATCACTCTGCTCAAAGCTGCCTGCCTAGATATCTGATGCTGCGTATCTGCACAAGGTACACCCCA  
GAGCAGGACACCATGACCTTCTCCGACGGGCTGACCCTGAACCGGACCCAGATGCACAATGCCGGCTTCGGGCCC  
CTCACAGACCTTGTCTTTGCTTTGCTGGGCAGCTCCTGCCCTGGAGATGGATGACACCGAGACAGGGCTGCTC  
AGCGCCATCTGCCTCATCTGCGGAGACCGCATGGACCTGGAGGAGCCCGAAAAAGTGGACAAGCTGCAGGAGCCA  
CTGCTGGAAGCCCTGAGGCTGTACGCCCGCGCGCGGCCAGCCAGCCCTACATGTTCCCAAGGATGCTAATG  
AAAATACCGACCTCCGGGGCATCAGCACTAAGGGAGCTGAAAGGGCCATTACTCTGAAGATGGAGATTCCAGGC  
CCGATGCCCTCCCTTAATCCGAGAGATGCTGGAGAACCCTGAAATGTTTGAGGATGACTCCTCGCAGCCTGGTCCC  
CACCCCAATGCCTCTAGCGAGGATGAGGTTCTGGGGGCCAGGGCAAAGGGGGCCTGAAGTCCCAGCCTGACCA  
GGGCCCCTGACCTCCCCGCTGTGGGGGTTGGGGCTTCAGGCAGCAGACTGACCATCTCCAGACCGCCAGTGACT  
GGGGGAGGACCTGCTCTGCCCTCTCCCCACCCCTTCCAATGAGCTCCTTGTTTTTGCCAAAGTTTCTAGGGGTGC  
CTCTGTGTTTCATCCCTTCCCTGATCTAACC GGCTCCCTCGCCAGTCCCGGGGGCCTGCCCTGCTCCCAAGGAG  
AGAGGGCAAAGGGATGAGCCTGGGTTTGACTCTAAATCTCAGCACTGCCCATGGGTCTAGACTTCCAGGG  
CAAGAGGAAGACCTGCCATTCCACAGCCCTTCCCTCTGCCAGGTGCTTGGCTCTCTGAGAGCAAACAGGAACAC  
TAGAGACCAAAAAGGGGACAAAGGAGAAGGGCTGAGCCACCTTCTTGCTCCTACCCCTGGGTGCCTAATGCTGTG  
TGATGCACCTGCAGGGTGTGTGCTAGCCTCTGTGCCCCGTCCTTGTGCCAGGTCAAGGTGGGGGCAGGCTGGGCC  
CTGCATTTCTGGGGCAGGAACAGAGGGTGAAAGGGACAGATAGATGCAGGTCCATTCTGCACCTCTTGGCTCGGG  
TGCAGAGTTTACCCTGTGCCCTCCGTTATAAGTCCCTCCCCAGCCCTGTATGTGCTTGGGCTCCTCCTGCC  
TCCATCTCAGCCATTGGGGCAGGGACCTCCTACACTACAGAGGGGCCAGGGGATCCCTCTCTCCCTAGTGCTT  
CCACCCCTTTACTCCCAGAGCAGCTTGGCCCAGGGAGGGGGATGCTGCTTAGCTGATCCCGCCCTGACCCAGAG  
GAAGCCTCTATTTATTTATTAGCTTTTGTTCACCGTGAATGACCCCTTCCCTCCAGGGGTCTTGGGTGGGGG  
AGCCCAGGGCCCCCTGTGACCCCTCCTTTCTTCCCTCCAATCCCCAGTTTGTATTTAGCTGCCAAATAAGATTCCCA  
TTGGCTCCCTGTGTTCTTGGGGGGTCAGGGTGCTGTCCCTCCCTCTGTTTACATCTCCCTCTACCCCGCT  
GTATCGCATATTGCTGAGTTTTCTATTTTGTGAAAATAAAGTGATGGAACTC

3904/6881  
**FIGURE 3596**

AGTTTCTAAGGATCATGTCTGCGAGCCAGGATTCCTGATCCAGAGACAACGGCCCCAATGGGATGGAGCCCCAAAG  
GTGTCAATTGAGAGTAACCTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCAGAGTCCCTTCTCCGTG  
GCATCTACGCCTATGGTTTAGAGAAGCCGTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTATC  
ACGTGATTGCTCAAGCCCCAATCTGGGGCTGGGAAAATGGCCACATTTGCCATATTGATTCTGCAGCAGATTGAAT  
TAGATCTAAAAGCCACCCAGGCCTTGCTCCTAGCACCCACTCAAGAATTGGCTCAGCAGATACAGAAGGTGGTCA  
TGGCACTAGGAGACTACATGGGTGCCTCCTGTGTCATGCCTGTATCAGGGGCACCAACATGCGTGCTGAGGTGCAGA  
AACTGCAGACGAAGCTCCTCACATCATTGTGGGTACCCCTGGCCATGTGTTTGATATGCTTAACGGGAGATACCT  
GTCTCCCAAATACATCAAGATGTTTGTACTGGACGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGAT  
CTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTGTCTGTCAGCTGCGATGCCTTCTGATGTGCT  
TGAGGTGACCAAGAAGTTCATGAGGGACCTCATTGCGATTCTTGTACGAAGGAAGTGTGACCTTGGAGGGTAT  
CCGCCAATTCTACATCAATTTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCCTGAC  
CATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAG  
ATTTCACTGTCTTCACCATTTCGTGGAGATATGGACCAAAACGAACAAGACGTGATCTTGAGGGAGTTTCGTTATG  
GCTCTAGCAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAACAGGTTTCTTTAGTCACCAAC  
TATGACCTTCCCACCAACAGGGAAAACCATATCCATAGAATCGGTGAGGTGGACGTTTGGCCGTAAAGGTGTG  
GCTATTAACGTGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATCGAGATCTTCTACAACCTCTCCATTGAG  
GAAATGCCCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCTATCTCG  
GGGGGCTGAGGAGCAGCAGGAGTGAGGGAGGAAGGGAGCCAAGGGATGGACATCTTGTCAATTTTTTCTTTGAAT  
AAATGTCACTTTTTTGAGGCAAAA

3905/6881  
**FIGURE 3597**

MEPKGVIESNWN EIVDSFDDMNLSESLLRGIYAYGLEKPSAIQQRAILPCIKGYHVIAQAQSGAGKMATFAILIL  
QQIELDLKATQALLLAPTQELAQQIQKVVMA LGDYM GASCHACIRGTNMRAEVQKLQTKLLTSLWVPLAMCLICL  
TGDTCLPFGFLSRRKC

3906/6881

**FIGURE 3598**

GGAGGACTGGGTGCGCGTGCAGGGATCGGAAGCCGTTGGAGTGTGTGAGGTTTTCTCGCTCTAGGGAGATTCTT  
CAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAACTTATT  
GGAAAAGCTAAAGAGGCCACCATTTGTACCCGTTGGAATAGCAGGTTTGCAGCAATTGTTGCATATGGATTATAC  
AAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCTTTGTT  
GTAGGAGCAATGACTGTTGGTATGGGCTACTTCATGTATCGGGAATTCTGGGCAAAACCTAAGCCTTAGAAGAAG  
AGATGCTGTCTTGGTCTTGTGGACGAGCTTGCTTTAGTTAGACGTCTCATTATTGAAGTTACTATTATTGTTGG  
AAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAAATATTGGCTTCCTTTCTTGCAGGCTTGAT  
TTGCCTGGTGACCAAATTACTAGTGACTAGTTTACTAACTAGGTCATTAAAGGAAGTCAAGTTAACTTAAACACG  
TCAACTAAACGCACTTGATGGTGTGAAATGTCCACCTTCCTAAATTTTAAGATGAACTGAGTTCTAAAGAAGA  
TAACAGGCCAATCCTGAAGGTACTCCAGTTTGCTGCAGAATCTCACATATTTTGGATGTTGTATAAGAGTCCTA  
TTTGCCCCAGTTAATTCAACTTTTGTCTGCCTGTTCTGTGGACTGGCTGGCTCTGTTAGAACTCTGTCCAAAAG  
TGCATGGAATATAACTTGTAAAGCTTCCCACAATTGACAATATATGTGCATGTGTTTAAGCCAAATCCAGAAAGC  
TTAAACAATAGAGCTGCATAATAGTATTTATTAAAGAATCACAACTGTAAACATGAGAATAACTTAAGGATTCTA  
GTTTAGTTTTTTGTAATTGCAAATTATATTTTGTGCTGATATATTAGAATAATTTTAAATGTCATCTTGAAA  
TAGAAATATGTATTTTAAGCACTCATGCAAAGGTAAATGAACACTTTTAAATGTGTGTTGCTTATTTTTTCCAT  
AAGAATTGTAAACATTGAACTGAACAAATTACCTATAATGGATTTGATTAAATGACTAATGAGCAAGCGGGTTGG  
CCAGACAGTATACCCAACTTTTATATAGTATACAGAAGGCTATCACACTTGTGAAATTCTCTTGTCTAATCCGA  
ATTTGCATTCCATGGTGATAACATGGTATATGTATTGTTATTAAAGTAAGTGACCCATGTC

3907/6881

**FIGURE 3599**

GGAGGACTGGGTGCGCGTGCAGGGATCGGAAGCCGGTTGGAGTGTGTGAGGTTTTCTCGCTCTAGGGAGATTCTT  
CAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTCAIATGAGGAAGATCAGGGATCAAACTTATT  
GGAAAAGCTAAAGAGGCACCATTTGTACCCGTTGGAATAGCAGGTTTTGCAGCAATTGTTGCATATGGATTATAC  
AAACTGAAGAGCAGGGGAAATACTAAATGTCCATTCACTGATCCACATGCGTGTGGCAGCCCAAGGCTTTGTT  
GTAGGAGCAATGACTGTTGGTATGGGCTACTTCATGTATCGGGAATTCTGGGCCTTTAGTTAGACGTCTCATTAT  
TGAAGTTACTATTATTGTTGGAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGC  
TTCCTTTCTTGCAGGCTTGATTTGCCTGGTGACCAAATTACTAGTGACTAGTTTACTAACTAGGTCATTAAAGGA  
AGTCAAGTTAACTTAAACACGTCAACTAAACGCACCTTGATGGTGTTGAAATGTCCACCTTCTTAAATTT



3908/6881  
**FIGURE 3600**

GCAGCTGCGCTGCGACTGCTCTGGAAGGAGAGGACGGGGCACAAACCCTGACCAATGACCCCCACAGGCTGCTGC  
CACCGCTGCTGCTGCTGCTAGCTCTGCTGCTCGCTGCCAGCCCAGGAGGCGCCTTGCGCGGGTGCCCAGGCTGCG  
GGCAAGGGGTGCAGGCGGGTTGTCCAGGGGGCTGCGTGGAGGAGGAGGATGGGGGGTCGCCAGCCGAGGGCTGCG  
CGGAAGCTGAGGGCTGTCTCAGGAGGGAGGGGCAGGAGTGCGGGGTCTACACCCCTAACTGCGCCCCAGGACTGC  
AGTGCCATCCGCCAAGGACGACGAGGCGCCTTTGCGGGCGCTGCTGCTCGGCCGAGGCCGCTGCCTTCCGCCCC  
GCGCGCCTGCTGTTGCAGAGGAGAATCCTAAGGAGAGTAAACCCCAAGCAGGCACTGCCGCCACAGGATGTGA  
ACCGCAGAGACCAACAGAGGAATCCAGGCACCTCTACCACGCCCTCCAGCCCAATTCTGCGGGTGTCCAAGACA  
CTGAGATGGGCCCATGCCGTAGACATCTGGACTCAGTGCTGCAGCAACTCCAGACTGAGGTCTACCGAGGGGCTC  
AAACACTCTACGTGCCCCAATTGTGACCATCGAGGCTTCTACCGGAAGCGGCAGTGCCGCTCCTCCAGGGGCAGC  
GCCGAGGTCCCTGCTGGTGTGTGGATCGGATGGGCAAGTCCCTGCCAGGGTCTCCAGATGGCAATGGAAGCTCCT  
CCTGCCCCACTGGGAGTAGCGGCTAAAGCTGGGGGATAGAGGGGCTGCAGGGCCACTGGAAGGAACATGGAGCTG  
TCATCACTCAACAAAAAACCGAGGCCCTCAATCCACCTTCAGGCCCGCCCCATGGGGCCCTCACCGCTGGTTGG  
AAAGAGTGTGGTGTGGCTGGGGTGTCAATAAAGCTGTGCTTGGGGTCAAA

3909/6881  
**FIGURE 3601**

MTPHRLLPPLLLLLLALLLAASPGGALARCPGCGQGVQAGCPGGCVEEEDGGSPAEGCAEAEGCLRREGQECGVYT  
PNCAPGLQCHPPKDDEAPLFRALLLGRGRCLPARAPAVAEENPKESKPQAGTARFQDVNRRDQQRNPGTSTTPSQP  
NSAGVQDTEMGPCRRHLDVQLQLQTEVYRGAQTLYVPNCDHGRGFYRKRCRSSQGQRRGPCWCVD RMGKSLPGS  
PDGNGSSSCPTGSSG

3910/6881  
**FIGURE 3602A**

GCTGGCCGTCTGCGCACCCCTCTCTCCCCTCGGCTCTTTCTAGGAAAGCTGAGCCTCATAGCTTCCGGGAGAAGG  
TTTTCCGGAAGAAACCTCCAGTCTGTGTCAGTATGTAAGGTGACCATCGATGGGACAGGCGTTTCGTGCAGAGTCT  
GCAAGGTGGCGACGCACAGAAAATGTGAAGCAAAGGTGACTTCAGCCTGTGAGGCCCTTGCCCTCCCGTGGAGTTGC  
GGCGAAACACGGCCCCAGTCAGGCGCATAGAGCACCTGGGATCCACCAAATCTCTGAACCACTCAAAGCAGCGCA  
GCACTCTGCCCAGGAGCTTCAGCCTGGACCCGCTCATGGAGCGGCGCTGGGACTTAGACCTCACCTACGTGACGG  
AGCGCATCTTGCCGCGCGCTTCCCCGCGCGGCCGATGAACAGCGGCACCGGGGCCACCTGCGCGAGCTGGCCC  
ATGTGCTGCAATCCAAGCACCGGGACAAGTACCTGCTCTTCAACCTTTCAGAGAAAAGGCATGACCTGACCCGCT  
TAAACCCCAAGGTTCAAGACTTCGGCTGGCCTGAGCTGCATGCTCCACCCCTGGACAAGCTGTGCTCCATCTGCA  
AAGCCATGGAGACATGGCTCAGTGTGACCCACAGCACGTGGTCTACTATACTGCAAGGGAAACAAGGGCAAGC  
TTGGGGTCATCGTTTCTGCCTACATGCACTACAGCAAGATCTCTGCAGGGGCGGACCAGGCACTGGCCACTCTTA  
CCATGCGGAAATCTGCGAGGACAAGGTGGCCACAGAACTGCAGCCCTCCAGCGTCGATATATCAGCTACTTCA  
GTGGGCTGCTATCTGGCTCCATCAGAATGAACAGCAGCCCTCTCTTCTGCACTATGTGCTCATCCCCATGCTGC  
CAGCCTTTGAACCTGGCACAGGCTTCAGCCCTTCTTAAAATCTACCACTCCATGCAGCTGTCTACACATCTG  
GAGTCTATCACATTGACAGGCCCTGGTCCCCAGCAGCTTTCATCAGCCTGGAGCCAGCCCTCTCTCAAAGGCG  
ATGTCATGGTAACATGTTATCACAAGGTGGCCGGGGCACAGACCGGACCCTCGTGTTCGAGTCCAGTTCCACA  
CCTGCACCATCCACGGACCACAGCTCACTTTCCCAAGGACCAGCTTGACGAGGCTGGACTGATGAGAGGTTCC  
CCTTCCAAGCCTCCGTGGAGTTTGTCTTCTCTCCAGCCCCGAGAAGATCAAAGGCAGCACTCCACGGAACGACC  
CCTGGGTCTCTGTGCTACTACAACACCACTGAGCCAGCCGTGCGCTGGGACTCCTATGAGAACTCAACAGCACC  
ACGAGGACAGTGTGGATGGCTCCTTGACCCACACCCGGGTCCCCCTGGATGGCAGTCTTATGCCCAGGTGCAGC  
GGCTCCCCGGCAGACCCCCCGGCACCCCTCTCCAGAGCCTCCACCACCCCCCATGCTCTCTGTGACGAGCGACT  
CAGGCCATTCTCCACGCTGACCACAGAGCCGGCTGTGAGTCCCCTGGCCGGCCGCCCCCTACAGCTGCTGAAC  
GGCAGGAGCTGGATCGCTCCTAGGAGGCTGCGGAGTGGCCAGTGGGGGCGGGGAGCTGGGCGGAGACGGCCA  
TCCTAGATGACGAAGAGCAGCCCACTGTGGGCGGAGGCCCCACCTCGGAGTGTATCCAGGCCATAGGCCTGGCC  
TCAGCCGCCACTGCTCTGCGCCAGGGCTACCGGGAGCCCTGCGGGGTTCCTAATGGGGGCTACTACCGGCCAG  
AGGGAACCCCTGGAGAGGAGGCGACTGGCCACGGGGGTATGAGGGATCCCCCAGGGCTACGGCGGAAACAGCCA  
TGGAGAAGAGGCGCCTCTGCCGATCGCTGTGAGAGGGGTATACCCCTACCCACCTGAGATGGGGAACAGCCA  
CTGGGGACTTTGGCTACCGCGCCCCAGGCTACCGGGAGGTGGTTCATCTGGAGGACCCTGGGCTGCTGCCCTAT  
ACCCATGCCCAGCCTGCGAGGAGAAGCTGGCGCTGCCTACAGCAGCCTTGTATGACTGCGGCTGGAGAGGGAGG  
CTGGAGAAGGGTGGGCAAGTGAGGCTGGCAAGCCTCTCTGCAACCCAGTGGGCTGGGCAACCCGCTGCCTCTGC  
TCTTGCTGCTGTGGGCATCACCATGCCCCGATGCCTGACTACAGCTGCCTGAAGCCACCAAGGCAGGCGAGG  
AAGGGCAGGAGGCTGCTCCTACACCATGTGCCCCGAAGGCAGGTATGGGCATCCAGGGTACCCTGCCCTGGTGA  
CATACAGCTATGGAGGAGCAGTTCAGTTACTGCCCAGCATATGGCCGTGTGCTCATAGCTGTGGCTCTCCAG  
GAGAGGGCAGAGGGTATCCAGCCCTGGTGCCCACTCCCCACGGGCTGGCTCCATTCCCCGGGCAGCCGCCCT  
ATCCACAATCTAGGAAGCTGAGCTACGAGATCCCTACGGAGGAGGAGGGACAGGTACCCATTGCCTGGGCACC  
TGGCCTCAGCAGGACCTTTGGCATCTGCAGAGTCGCTGGAGCCGCTGTCTGAGAGGAGGGCCCCAGTGGGCACA  
GCACACTGCTCGGTCTCCCCGAGATGCCCCATGCAGTCTTCGTGAGAGTTGTCTGGTCCCTCCACGCCCCCTGC  
ACACCAGCAGTCCAGTCCAGGGCAAGGAAAGCACCCGGCGACAGGACACCAGGTCCCCACCTCAGCGCCCACTC  
AGAGACTGAGTCTGGCGAGGCTTGCCCCCTGTTTCCAGGCAGGCACCGGAAAGGCCCTGAGCTGCCGTGCG  
GAAGTGGGCTGAGCCTCTGGCCCCCTAGCCAGTCTCTCCGACCTTCCCTCCAGCTCGCCCACTGAGTGGCCTC  
AGGAAAGGAGTCCAGGGGGCCACTCAGATGGCGCCAGTCTCGGAGCCCTGTGCCCCACCACTTCTGGCCTCC  
GCCACGCCCCCTGGCAAGGCCCTCGAGGCCCCCGACAGCCAGATGGGTCTCCCTCACTCTGTGCTTCCC  
AGATGCCCTGGCTGTGGCCAGCCAGCCGCTCAGAGCTCACCTACACCTGCTTTCCCCCTGGCTGCCCTCT  
ATGACACCAATGGCCTTAGCCAGCCCCCACTTCTGAGAAACGCCACCTGCCCGGGCCGGGGCAACAGCCAGGAC  
CCTGGGGCCAGAGCAGGCATCATCGCCAGCCAGAGCATCAGTCACCATGTACCTTCGCACCTCTGCTCTCAG  
ATAATGTCCCCCAAACCCAGAGCCTCTACACAAGAGAGCCAAAGCAATGTCAAGTTTGTCCAGGATACATCCA  
AGTTCTGGTACAAGCCACACCTGTCCCGTGACCAAGCCATTGCCCTGCTGAAGGACAAGGACCCTGGGGCCTTCC  
TGATCAGGGACAGTCATTTCATCCAAGGAGCTTATGGGCTGGCCCTCAAGGTGGCCACACCGCCACCCAGTGGCC  
AGCCCTGGAAAGGGGACCCCGTGGAACAGCTGGTCCGCCATTTCTCATCGAGACTGGGCCCCAAAGGGGTGAAGA

3911/6881  
**FIGURE 3602B**

TCAAGGGCTGCCCCAGTGAGCCCTACTTTGGCAGCCTGTCCGCCTTGGTCTCCCAGCACTCCATCTCCCCATCT  
CCCTGCCCTGCTGCCTGCGCATTCCCAGCAAAGATCCTCTGGAAGAGACCCCAGAGGCTCCAGTGCCCAACA  
TGAGCACAGCGGCAGACCTCCTGCGTCAGGGTGCTGCCTGCAGCGTGCTCTACTTGACCTCAGTGGAGACAGAGT  
CACTGACGGGGCCCCAAGCTGTGGCCCGGGCCAGCTCTGCAGCTCTGAGCTGTAGCCCCGCCCCGACACCAGCTG  
TTGTCCACTTCAAGGTGTCAGCCCAGGGCATTACACTGACGGACAACCAAAGGAAGCTCTTCTTCGCCGCCATT  
ATCCAGTGAACAGCATCACCTTCTCCAGCACTGACCCTCAAGACCGGAGATGGACCAACCCAGACGGGACCACCT  
CCAAGATCTTTGGTTTCGTGGCCAAGAAGCCGGGAAGCCCCGAGGAGAATGTGTGTACCTCTTTGCAGAGCTTG  
ACCCAGATCAGCCTGTGGCGCCATTGTACCTTCATCACCAAAGTTCTACTGGGCCAGAGAAAATGAAGGAAGG  
CCACAAGCTCAGAGCCACATCAACACTGCCCCCTCCCAGCACCCACAGCCCTCACATCCCCTGGCCTGGACC  
CAGGAGACCCAGGAGAAAGCACCTCCCTTAGGAATGAGGAGTGGGCATCAGGCCTGGGACACTGCTCTCCTTCC  
CCGCCCCAGCCTGCTAAGTTAAGTGGACAGGCCACAAGATGACCTTGCAATGTGAGCAGATGGCAGAGATGGGT  
GTGTGAGGGGTGAGGAGGCATCAGCAGTTGAGCCCCGAAGGAGATCAGGCAGCCCCACCTGCAGGAGAACGTCAG  
CCCTCCAGGGGATCAGCCCCTGCCAGTTCCACCCAGCTGCAGGTGCCAGCACGGCAGGGATGGGAGAGGGGTGGG  
GAGCGAGTCACTGCCTCCTCTGAGCAGAGATTCAGAGTAGGATCACATGAATAGGGGAAAAAAGAGAGTCTATTT  
TTGTCTAATAATAAAGAATTTCTATAAACTTT

3912/6881  
**FIGURE 3603**

MKSSGPVERLLRALGRDSSRAASRPRKAEPHSFREKVFRKKPPVCAVCKVTIDGTGVSCRVCVATHRKCEAKV  
TSACQALPPVELRRNTAPVRRIEHLGSTKSLNHSKQRSTLRSFSLDPLMERRWDLDTYVTERILAAAFPARPD  
EQRHRGHLRELAHVLSKHRDKYLLFNLSSEKRDHLTRLNPKVQDFGWPELHAPPLDKLCSICKAMETWLSADPQH  
VVVLYCKGNKGKLGVIUSAYMHYSKISAGADQALATLTMRKFCEDKVATELQPSQRRYISYFSGLLSGSIRMNSS  
PLFLHYVLIPMLPAFEPGTGFQPFLLKIYQSMQLVYTSGVYHIAGPGPQQLCISLEPALLLKGDVMVTCYHKGGRG  
TDRILVFRVQFHTCTIHGPQLTFPKDQLDEAWTDERFPFQASVEFVFSSSPEKIKGSTPRNDPSVSDYNTTEPA  
VRWDSYENFNQHHEDSVDGSLTHTRGFLDGSPYAQVQRPPRQTPPAPSPEPPPPMMLSVSSDSGHSSTLTTEPAA  
ESPGRPPTAAERQELDRLLGGCGVASGGRGAGRETAILDDEEQPTVGGGPHLGVPYGHPLGLSRHCSCRQGYRE  
PCGVNNGGYRPEGTLERRRLAYGGYEGSPQGYAEASMEKRRLCRSLSEGLYPYPPEMGKPATGDFGYRAPGYRE  
VVILEDPLPALYPCPACEEKLALPTAALYGLRLEREAGEGWASEAGKPLLHPVRPGHPLPLLLPACGHHHAPMP  
DYSCLKPPKAGEEGHEGCSYTMCEGRYGHYPALVTYSYGGAVPSYCPAYGRVPHSCGSPGEGRGYPSPGAHS  
PRAGSISPGSPYPYQSRKLSYEIPTEEGGDRYPLPGHLASAGPLASAESLEPVSWREGPSGHSTLPRSPRDAPCS  
ASSELSPSTPLHTSSPVQKESTRRQDTRSPTSAPTQRLSPGEALPPVSQAGTGKAPELPSGSGPEPLAPSPVS  
PTFPPSSPSDWPQERSPGGHS DGASPRSPVPTTLPLGLRHAPWQGPGRGPPDSPDGSPLTPVPSQMPWLVASPEPPQ  
SSPTPAFPLAASYDTNGLSQPPLPEKRHLPGPGQPGWGPQASSPARGISHHVTFAPLLSDNVPQTPEPPTQE  
SQSNVKFVQDTSKFWYKPHLSRDQAIALLKDKDPGAFLIRDSHSFQAYGLALKVATPPPSAQPWKGDPEQLVR  
HFLIETGPKGVKIKGCPSEPYFGSLALVSQHSISPISLPCCIRIPSKDPLEETPEAPVPTNMSTAADLLRQGAA  
CSVLYLTSVETESLTGPQAVARASSAALSCSPRPTPAVVHFVSAQGITLTDNQKLFRRHYPVNSITFSSTDP  
QDRRWTPDGTTSKIFGFVAKKPGSPWENVCHLFAELDPDQPAIAIVTFITKVLLGQRK

3913/6881  
**FIGURE 3604**

AAATCTAGCCCCGGGAACCGAGTTGCGGGAGTGCGGTCTGTGCCGTTCCGGCCAGGAGTTTGCCGACTGCAGACGTC  
CTGCGAACCGGCAAGATGTGCTCTCTGGGGTTGTTCCCTCCTCCACCGCCTCGGGGTCAAGTCACCCTATATGAG  
CACAATAACGAGCTGGTGACGGGCAGTAGCTATGAGAGCCCCGCCCCGACTTCCGGGGCCAGTGGATCAATCTT  
CCTGTCCTACAACCTGACAAAGGATCCCCATAAGACCCCTGGAAGGCTGGACCATGGCACAAGAAGTGCCTTCATC  
CATCACCGGGAGCAAGTGTGGAAGAGATGCATCAACATTTGGCGTGATGTGGGCCTTTTGGGGTGCTAAATGAA  
ATTGCAAACCTCAGAAGAAGAGGTGTTTGTAGTGGGTGAAGACGGCATCCGGCTGGGCCCTGGCACTCTGTGATGG  
GCCTCTTCCCTCCATGGGTCCCTGTTCCCCCATCTGTCTCTCAGGAGCGAAGATCTGATCGCTGAATTTGCCCAA  
GTCACAAATTGGTCCAGCTGCTGCTTGCCTGCTTTGTCATGGCACCCCCACACCAACAAGTTTGCAGTGGCCCTG  
CTAGATGACTCAGTCCGTGTGTATAATGCCAGCAGCACCATAGTCCCTCCCTGAAGCACCGGCTGCAGCGAAAT  
GTGGCGTCTCTGGCCTGGAAGCCCCCTTAGTGCCCTCTGTCTTGGCTGTGGCCTGCCAGAGCTGCATTCTTATCTGG  
ACCTTGGACCCCTACCTCCTTGTCTACCCGACCCCTCTTCTGGCTGTGCCCCAAGTGCTGTCTCACCTGGGCATACA  
CCTGTTACAGCTTGGCCTGGGCCCCCCAGTGGGGGGCGGCTGCTCTCAGCTTCACCCGTGGATGCTGCTATCCGG  
GTATGGGATGTCTCAACAGAGACCTGTGTCCCCCTTCCCTGGTTCCGAGGAGGTGGGGTGACCAACCTGCTCTGG  
TCCCCAGACGGCAGCAAAATCCTGGCTACCACTCCTTCAGCTGTCTTTCGAGTCTGGGAGGCCCAGATGTGGACT  
TGTGAGAGGTGGCCTACTCTATCAGGGCGCTGTGAGACTGGCTGCTGGAGCCCAGATGGCAGCCGACTGCTGTTC  
ACTGTATTGGGAGAGCCACTGATTTACTCCCTGTCTTTTCCAGAACGTTGTGGTGAGGGAAAGGGGTGCGTTGGA  
GGTGCAAAGTCAGCAACGATTGTGGCAGATCTGTCTGAGACAACAATACAGACACCAGATGGTGAGGAGAGGCTT  
GGGGGAGAGGCTCACTCCATGGTCTGGGACCCAGTGGGGAACGCTGGCTGTGCTTATGAAAGGAAAGCCAAGG  
GTACAGGATGGTAAACCAGTCATCCTCCTTTTTTCGCACTCGAAACAGCCCTGTGTTTGAGCTCCTTCCCTGTGGC  
ATTATCCAGGGGGAGCCAGGAGCCCAGCCCCAGCTCATCACTTTCCATCCTTCCCTTCAACAAAGGGGCCCTGCTC  
AGTGTGGGCTGGTCCACAGGCCGAATTGCCACATCCCGCTGTACTTTGTCAATGCCAGTTTCCACGTTTGTAGC  
CCAGTGTCTTGGGCGGGCCCCAGGAACCCCTGCTGGGGGTGGAGGCTCTATTTCATGACCTGCCCCCTTTTACTGAG  
ACATCCCCAACCTCTGCCCCCTTGGGACCCCTCTCCAGGGCCACCACCTGTTCTGCCCCACTCCCCACATTCCAC  
CTCTAAGAATAAATAAGTTTTCTTTTGTTCCTCA

3914/6881

**FIGURE 3605**

MCSLGLFPPPPPRGQVTLYEHNNELVTGSSYESPPPDFRGQWINLPVLQLTKDPLKTPGRLDHGTRTAFIHHREQ  
VWKRCINIWRDVGLFGVLNEIANSEEEVFEWVKTAGWALALCRWASSLHGSLFPHLSLRSEDLIAEFAQVTNWS  
SCCLRVFAWHPHTNKFALLDDSVRVYNASTIVPSLKHRLQRNVASLAWKPLSASVLAVACQSCILIWTLDP  
SLSTRPSSGCAQVLSHPGHTPVTSLAWAPSGGRLLSASPVDAAIRVWDVSTETCVPLPWFRGGGVTNLLWSPDGS  
KILATTPSAVFRVWEAQMWTCERWPTLSGRCQTGCWSPDGSRLFTVLGEPLIYSLSFPERCGEGKGCVGGAKSA  
TIVADLSETTIQTPDGEERLGGEAHSMVWDPSGERLAVLMKGKPRVQDGKPVILLFRTRNSPVFELLPCGIIQGE  
PGAQPLITFHPSFNKGALLSVGWSTGRIAHIPLYFVNAQFPRFSPVLGRAQEPPAGGGGSIHDLPLFTTETSPTS  
APWDPLPGPPPVLPHSPHSHL

3915/6881  
**FIGURE 3606**

AACGGGATGGGGAGCTGGACCAGCAGATTATGAGCTTACAGAAAGCCTGGCCTACATTTTACTCTTTTTGGATT  
CTTCTCATCAAGAGACTGCTGCAGTGCCTGTCATGTGACAGCGGCATGGACATATGCCCCAGGCTTTCCTGCTG  
GGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCCCTGGAAGCTTGGCTGAGAGCTTCCTG  
GAGGAGGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTTTTTCGGAGCCTGTGGGCATCATCTACAATCCC  
GTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACTCGCTACTGCCAGGGCCCCAAGGAAGTACTCTTCCTG  
GGCATGAACCCTGGACCTTTTGGCATGGCCCAGACTGGGGTGCCCTTTGGGGAAGTAAGCATGGTCCGGGACTGG  
TTGGGCATTGTGGGGCCTGTGCTGACCCCTCCCCAAGAGCATCCTAAACGACCAGTGCTGGGACTGGAGTGCCCA  
CAGTCAGAAGTGAGTGGTGCCCGATTCTGGGGCTTTTTCCGGAACCTCTGTGGACAGCCTGAGGTCTTCTTCCAT  
CACTGTTTTGTCCACAATCTATGCCCTCTGCTTTTCTGGCTCCCAGCGGGCGAACCTTACTCCTGCTGAGCTG  
CCTGCCAAGCAGCGAGAACAGCTTCTTGGGATCTGTGATGCAGCCCTCTGCCGGCAGGTGCAGCTGCTGGGGGTG  
CGGCTGGTGGTGGGAGTTGGGCGACTGGCAGAGCAGCGGGCAGCAGGGCTCTGGCAGGCCTGATGCCAGAGGTG  
CAGGTGGAAGGGCTCCTGCATCCCTCTCCCCGTAACCCACAGGCCAACAAAGGGCTGGGAGGCAGTGGCCAAGGAA  
AGATTGAATGAGCTGGGGCTGCTGCCACTGCTGTTGAAATGAGTGCCCTTGGGGCCTTGATGGGACACATTCAA  
GACCTCGAAGTCATTCTTGGCCAAGCAGATGACAACACATCTCCTGGACTGGAGCAAAAGGTCCTTCTGTGCACC  
CTGGTCGCTGGGAAACGTATTCTTTGATCTGTTGAACTGTCTTCCAACCTGCCATGGCAGTTTTTGACACTACTCC  
TGTTTGCCCTCCTGATTCTGCTTTCTTTACCTTTTAACATTGCCCTTTTCAGGGGACCCACTTTGTAGGGAAT  
CTGCAGAAGGTGTGCTTTTGCACCTGTCAGACTGCTCTACCTCAGTGTTTTCTTGGGAGACTTTATTTCAGCTGAGA  
GTGCCCTAGACAGTAACCTTAAGGTACAGTTTACTATTTTCAGAGGAAATATCTTGCCAGGATACCTACCCATCC  
TTATAGAACAGTTACCTTTAGCTGACCCCTTTCTCACAGGGACCAAGACAAAGCATGGGACATGAAATTAAGAG  
TGAACCTCTTATGGGAGGTGTCAGCTGGATCAGAGGAAAAATCCAGTGTTGACAGAGTGCAAGTCAGAAGACCTGG  
CTTTTCATCCCAGCTTTGAAACTTGGAACTTTTGTATTGACAAATTAATAAACCTCTCTATGCCTCAGGC



3916/6881  
**FIGURE 3607**

MPQAFLLGSIHEPAGALMEFQPCPGSLAESFLEEELRLNAELSQLQFSEPVGIIYNPVEYAWEPHRNYVTRYCQG  
PKEVLFLGMNPGPFGMAQTGVPFGEVSMVRDWLGIVGPVLTTPQEHKRPVLGLECPQSEVSGARFWGFFRNLCG  
QPEVFFHHCFVHNLCPLLFLAPSGRNLTPAELPAKQREQLLGICDAALCRQVQLGVRLVVGVRLAEQRRARAL  
AGLMPEVQVEGLLHPSRNPQANKGWEAVAKERLNELGLLPLLLK

3917/6881  
**FIGURE 3608**

TGACCCTAACAGTCGATTCAAGGCCAAGTGGTCAGTTTGTTCAGCCTTTTTTAAGGGATTTCCTTTTATTTTTAGG  
AATTCCAAACAGAGTTAACCTAAACTGTCAATTGCCAAAAGATCAGTCTTAACTTTCTTAGCACCTGTACCTGTT  
TAATGTGATCAGCTATCAGTGAGGAAAAAAAAAAAAATCTATTTAGGTCTTGGAATGGTTCCTGTACCTAGAGTA  
TCCATATTGAACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAACTTGCTCTTTTGCCCAGGCTGGAG  
TGCAGTGGCGTGATCTTGGCTCACTGCAACCTCCGCCTCCCGGTTCAAGCAGTTCTCTGCCTCAGCCTCCTGAG  
CAGCTGGGATTATAGGCGCCTGCCACCATGCCGGCTAATTTTGTATTTTTAGTAGAGACAGGGTTCACCATCT  
TGGCCGTGCTGGTCTTGAACCTCTGACCTTGTGATCCGCCTGCCTCGGCCACTCAAAGTGCTGGGATTGCAGGCG  
TGAGCCAGCACCCGGCCACAGTATCTTTATTACAGCTCACTGCAGCCTCAATCTCCTGGGCTCAAAATGATCCTCC  
TGCCTCAGCCTCCCAAGCAGCTGGGACTACAGGCGCACACCACGGTGTCTGGCTAATTTTATTATTTAAAAATG  
TTTTGTAGAGACAGTCTCCCTGTGTGCCCAGGCTGGTCTCCAACCTCGTGAGCTCAAGTGATCCACCTGCCTCAG  
CCTCCCAAAGTGCTGGGATTACAAGCATAAGCCACCGCACCCGGCCCTAGTGAACATTTTACTGTATGTGTTGA  
TAAATCATCTTTTGAGTTTCTGTTGTATGTGGGACTTCTTACACTGGCTGCTGTGAAGAGGTATGGAAGAAAGG  
AGAGGCTTCTGCCTAGAAATCTTTGAGAACCTGAAAAGACAGTTTAATCATGTGCACAACACTCTTAAGGCT  
CAAGTCAGTGTTCTGGTTTCCGGTAGCTTTAGGATTGGATTCTAAACGAGGGCTGGTGGTGAGTTTGGTGTGTTGT  
CTCGTGTACCCCTCACCCCTCACCTCCTCAGTTTAGGATAAGAGACATAATGATTTCTACCAGAATCCAAAGTAA  
ATCCAAAGGGGGAGAAAAGACATAACTGTTTTTCTTCTACCTTTTTTTTGTAAAGAGTTACATCTCTCACAGG  
AGGAAAGAATTCAAGAGTCTATATGATTAGTTACAGAGAATATTTTCATCCCTCTCCCTGAATAGAAAAGCAGG  
GGTCACCATTTGTATCCTTACCTTGAGGTGTTTTGAAGATGCTGTAACCTCTTGAAGTTGAGCTGAGGCAGAAA  
GGTTGGAAAAATGCAGCCCTCTGGGTATTGTGGGGAGGGATGTGATGTAGTAAGAGGGTGTGTTGTGGTGCTAGG  
ATTCCACGCCACCAACTTGACGCTTTATAAGAGCGCTACCAAGAACCACACTGGGGAAAAGGTTCTTATTCAT  
TGTTTCTGTTGGAATGTGATCTTGCTTTCTGGATTTTAGGAATTCAGGTTACTCAGTATAAACTCTGAGAAATC  
AGTGTGACTTAGTCCTTACCTCCTAAGATAAAGTGAATATTTCTTTACAAAATAATTCATGTCTTAATGTTAA  
AGATGTAATTTTATTTTCAAAACATCTATAACATGACTTTTCAAGCAGTTTCAATTTTCCAAGATTCCTCACATT  
ATACTAGATAAATAATAGGCCCTCAGTTAATACCCTTCACTTATTGAATTAATCTAGTTTGTGGAATGAGGTGTA  
TCCTGCCAACTTCCCTCTGCTCCCAAGTACACTCTGAGAGGTAAAATGCTCTGGGAAATGGAACAAGATCGAGT  
GGATGCTGACTCTGTGTGCCACCTCCTCAACTGATTGATAATGGTTGACCTTGGGCAAGTCACTTCTTTCAATG  
CCTCAGTTCCCATCTGTCAATGGGGTTAATAATACTGACCTACCTCACAGGGGTGTGTTGTGAGGCATTGTA  
AATCAAAGTTAATAGAATACTTCAGGGTCTCTGTGGAGGATGTCTTGAGCCAGAGTTAAGCCTGACACACAGG  
CTTTGGTCTCACTGAGCTGTCTCAAGACTGGAACACTTAGTGACTCGGCAATTTTCTGCCCCCACCCTC  
ATCAAAGCTGCTAGTTTCAGATGTTGACAGTGTTCATGAATGTTGGAATCTTACTAGTCCAGACTTACTTAGGA  
TGTTGTGGGGAAGGCACTTGGGATTTTCTGTGCTTGCATTACAGAGGGAGGCCATTCAGATTCAAGAGCAT  
TGGATTAGGGAATCGTGAGGCAGGGATGCTACTGCGTATTTCTCTCTGCAGGTTGGGGATTAAAGTTCTTTCCC  
CATGGGTTTGAAGCAGACTCAGACTGTCTCAGGATCAAAGCAACCCTCAATGGTTTTGATTTATGTCATTGCTTA  
CCACTCCCCAACCAATCCCAGGACAGCTGGGTCACTGTACCCCTTGTGGTATCTGTACCTGGGCCTCTCCTTCC  
TCATAGGGACAGCTGATTGAATAAATGTGACCACTTATTTCCACCCCCCACCCTCAAAAGCTACATTGGAATT  
ATTTTCTTAGAAATGTGTATAACACTCAGAAATGGGCATTGATCCTTAAAGCTTCATCCCATTCACCGTATTCA  
ACATCTGTCATCTCTTAGTGTCTGCAGTCTGAACCTAACCTTGACCTTTTTTCCCTCTGGTTTGAGAAAATTTG  
GACACTATTTCTACTTGGCCAGGTGTGGGCTCAAGAGCCTTACTCTTTCCATCTCAGTTTAGGGGCGCAGCCAGC  
TCCTCTTCCCAATAGGGCTCTTTCTGCTTTCCCTCTCCTTGGCCCTAGATTTGTAATCCATGAAAAAGCACAAGG  
TCCTGGCTCCTTGGCGTCACATTCTGGTCTCTGTGTTTTGTGGACTCTGCTCTCACTGTTTACCCAGCACTAGC  
AGTACCAGATGGTCTGTGGAGTCTGGGGAATGGAGAGAGCACAGTCTGACTCCCTGCCAAGTAGCCAGGAGTT  
GACTTGGCCATGGTCCGCTGGCTTTCCACCACTTCCTACAGGATGGGATCTAAGAGACTCAAGAGCTGGGTTTC  
TTTCAGCACTCTGTACTGTCCCAATAGCAACAAATCACTTTGTAGCCAGATTTCTGAATGGAAATGAGAAATT  
GAATTCCTCATGGACTTTTAGGTTTATGGGGAGTTTGTAGCTGTGTTCTTGGTTTTATTTACGCCAAACATGTC  
TGCTTTTGATTTTTTTTTTAAAGTATAAGTGGTCTATATATATGTTACCTTTTAAATGTAAATGTTTAAAAAGT  
AAGCATTTATGTGTTTCCATAACTGACATCTGATGCAGACCTCATTCTCTCCCCCTCTCTACCTCCTCTTTTC  
CCCCTTTTCATACTCTTGTATTGGTTCTAATAAATGGTTGCTTTTC

3918/6881

**FIGURE 3609**

MVDLGQVTSFNASVPHLSNGVNNTDLPHRGVVVRHCKSKLIEYFRVLCGGCLEPEFKPDTQALVLTLSRLELL  
SDSANFLPPTPHQSC

**FIGURE 3610**

[illegible]

3920/6881

**FIGURE 3611**

MWNPAGQPGPNPYFPNIGCPGGSNPAHPPPINPPFPFGPCPPPPGAPHGNPAFPFGGPPHPVPQPGYPGCQPLG  
PYPPPYPPPAPGIPFVNPLAPGMVGFAVIVDKKMQKKMKKAHKKMHKHQKHHKYHKGKHSSSSSSSSSDSD

3921/6881  
**FIGURE 3612**

GAGAGGGCGAAGGTAGGCTGGCAGATACGTTCTGTCAGCTTGCTCCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCA  
TCGTTAAAGTCTCTCTTCCACCTGCCGTCATGCTCTAAGTCAGAGTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGC  
TCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTGAGCAATGGGAACGCTCA  
CGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCTAGGGGCTTTGGGTTGTGCACATATGCCACTGTGG  
AGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCT  
CCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACA  
CTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAG  
GCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGA  
AATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCAT  
CCAGCCAAAGAGGTGCAAGTGGTTCTGGAACTTTGGTGGTGGTGGTGGAGGTGGTTTCGGTGGGAATGACAACCT  
TCGGTCGTGGAGGAACTTCAGTGGTGGTGGTGGCTTTGGTGGCAGCCGTGGTGGTGGTGGATATGGTGGCAGTG  
GGGATGGCTATAATGGATTGGCAATGATGGTGGTTATGGAGGAGCGGCCCTGGTTACTCTGGAGGAAGCAGAG  
GCTATGGAAGTGGTGGACAGGGTTATGGAAACCAGGGCAGTGGCTATGGCGGGAGTGGCAGCTATGACAGCTATA  
ACAACGGAGGCGGAGGGCGCTTTGGCGGTGGTAGTGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTG  
GGAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCT  
ATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCT  
ATGGCAGTGGCAGAAGATTTTAAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGC  
TACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACATGT  
TTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTT  
TAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGATTTTTTTTTTGCACCCCAT  
GCTGTTGATTGCTAAATGTAAACAGTCTGATCGTGACGCTGAATAAATGTCTTTTTTTTAAATGTGCTGTGTAAAGT  
TAGTCTACTCTTAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTGATGCCAGGT  
TCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTGTCTTCGGAAACCTTGGTGTAGTTGAACTG  
ATAGTTACTGTTGTGACCTGAAGTTCACCATTAAGGGATTACCCAAGCAAAATCATGGAATGGTTATAAAGT  
GATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTACCAGATAAAATTATAGATGGGAATGAAGC  
TTGTGTATCCATTATCATGTGTAATCAATAAACGATTTAATTCTCTTGAA

3922/6881  
**FIGURE 3613**

MSKSESPKEPEQLRKLFIGGLSFETTDESLSHFQWGLTDCVVMRDPNTKRSRGFGFVITYATVEEVDAAMNAR  
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYKIEVIEIMTDRGSGKKRGFAF  
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSQRGRSGGNFGGGRGGGFGGNDNFGRGGNFSGR  
GGFGGSRGGGGYGGSGDGYNGFGNDGGYGGGGPGYSGGSRGYSGGGQGYGNQGSYGGSGSYDSYNNGGGGGFGG  
GSGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGRSSGPYGGGGQYFAKPRNQGGYGGSSSSSYSGRRF

3923/6881  
**FIGURE 3614**

GCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGTGCCCAAAGCAAATGCTGGCCGCCAACCCAGGC  
AAGACCCCGATCAGCCTTCTGCAGGAGTATGGGACCAGAAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCC  
GAGGGCCAAGCCACCAGCCTAATTTACCTTCCGGGTACCGTTGGCGACACCAGCTGCCTGGTCAGGGCCCC  
AGCAAGAAGGCAGCCAAGCACAAGGCAGCTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCG  
GCCCTGGAGGACAGCAGTTCTTTTTCTCCCTAGACTCTTCACTGCCTGAGGACATTCCGGTTTTTACTGCTGCA  
GCAGCTGCTACCCAGTTCCATCTGTAGTCCTAACAGGAGCCCCCATGGAAGTGCAGCCCCCTGTCTCCCT  
CAGCAGTCTGAGTGCAACCCCGTTGGTGCTCTGCAGGAGCTGGTGGTGCAGAAAGGCTGGCGGTTGCCGGAGTAC  
ACAGTGACCCAGGAGTCTGGGCCAGCCACCGCAAAGAATTCACCATGACCTGTGAGTGGAGCGTTTCATTGAG  
ATTGGGAGTGGCACTTCCAAAAAATTGGCAAAGCGGAATGCGGCGGCCAAAATGCTGCTTCGAGTGCACACGGTG  
CCTCTGGATGCCCGGGATGGCAATGAGGTGGAGCCTGATGATGACCATTCTCCATTGGTGTGGGCTCCCGCCTG  
GATGGTCTTCGAAACCGGGGCCAGGTTGCACCTGGGATTCTCTACGAAATTCAGTAGGAGAGAAGATCCTGTCC  
CTCCGAGTTGCTCCCTGGGCTCCCTGGGTGCCCTGGGCCCTGCCTGCTGCCGTGTCTCCTCAGTGAGCTCTCTGAG  
GAGCAGGCCTTTACGTCAGCTACCTGGATATTGAGGAGCTGAGCCTGAGTGGACTCTGCCAGTGCCTGGTGGAA  
CTGTCCACCCAGCCGGCCACTGTGTGTCTATGGCTCTGCAACCACCAGGGAGGCAGCCCGTGGTGAGGCTGCCCGC  
CGTGCCCTGCAGTACCTCAAGATCATGGCAGGCAGCAAGTGAAGCCCCAGCTGGACTCATGGATGTGCACCCTTT  
GCTCCCTGCTCTTTCTGCCTCTGGGCTCATGTATCTGCGCAGCTCTGGTACCCTCTGTGGGTGCCATCTCTACCT  
CTGACACAGACTGCCTGCCTTGAAGCTGAGAAGGCACAGGGCAAGGAGCCAAGGACCACAGAGCCTCAGCCAGCC  
CAGGATCCGTCCCTCATTTTATTGGTGATGATGAATGGGAATGAAATCAGGGGGCTGTCTACTAGAGCCTGGAATA  
AATATGCTGCTTTGTGGATTTTAA



3924/6881  
**FIGURE 3615**

MLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSC TGQGPSKKA AKHKA AEVALKHLK  
GGSMLEPALEDSSSFSPLDSSLPEDIPVFTAAAAATPVPSVVLTRSPPMELQPPVSPQQSECNPVGALQELVVQK  
GWR LPEYTVTQESGPAHRKEFTMTCRVERFIEIGSGTSKKLAKRNAAKMLLRVHTVPLDARDGNEVEPDDHFS  
IGVGSRLDGLRNRGPGCTWDSL RNSVGEKILSLRSCSLGSLGALGPACCRVLSEELSEQAFHVS YLDIEELSLSG  
LCQCLVELSTQPATVCHGSATTREAAERGEAARRALQYLKIMAGSK

3925/6881

**FIGURE 3616**

GCCTCTCCAGCTGCGACACAGATGGCGCGGGGCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGT  
GCCCAAGTGAGTCCTTACCGCCTCCCTACCCAGCGGCTTCCCCTCCGCTAGTACGCATGTCCACAGCTTCACGGA  
CCGGGAGAGAGGGGGCGCGGAAGGAAGGAGGCGGGACGGTATTACAAACAAAAAATACGGCCTTCTCGAGAAGC  
GACGGCGGAGGGCCCCGCTCCTCCCAGAAGGCGGTGCAGCCTGCCCGGGCGAGCCACGCACGCAGAGGGTTGTGGG  
GCGGATAGCTCCCTTCCAGATGGAGGCTCACGAAGTAGGGTGGGCGGGGGACTCCATATCCACGCTGCCCCGCG  
GCGGGCCCTACCGGCCGCGACTCCGGGCTTGGCCCCGGCCCTAGCTCGTCGGCTGTGTATTGGGGCGCGTGGAGG  
CTGCAGTCACGGTGGCGCCCCGCGGGGACGGAGGAGGAATGAGTGAAGAGGAGCAAGGCTCCGGCACTACCACGG  
GCTGCGGGCTGCCTAGTATAGAGCAAATGCTGGCCGCCAACCCAGGCAAGACCCGATCAGCCTTCTGCAGGAGT  
ATGGGACCAGAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCCGAGGGCCAAGCCCCACCAGCCTAATTTCA  
CCTTCCGGGTACCGTTGGCGACACCAGCTGCACTGGTCAGGGCCCCAGCAAGAAGGCAGCCAAGCACAAAGGCAG  
CTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCGGCCCTGGAGGACAGCAGTTCTTTTTCTC  
CCCTAGACTCTTCACTGCCTGAGGACATTCCGGTTTTTACTGCTGCAGCAGCTGCTACCCCACTTCCATCTGTAG  
TCCTAACCAGGAGCCCCCATGGAACTGCAGCCCCCTGTCTCCCCTCAGCAGTCTGAGTGCAACCCCGTTGGTG  
CTCTGCAGGAGCTGGTGGTGCAGAAAGGCTGGCGGTTGCCGGAGTACACAGTGACCCAGGAGTCTGGGCCAGCCC  
ACCGCAAAGAATTACCATGACCTGTCGAGTGGAGCGTTTCAATTGAGATTGGGAGTGGCACTTCCAAAAAATTGG  
CAAAGCGGAATGCGGCGGCCAAAATGCTGCTTCGAGTGACACGCTGCTCTGGATGCCCGGGATGGCAATGAGG  
TGGAGCCTGATGATGACCACTTCTCCATTGGTGTGGGCTCCCGCCTGGATGGTCTTCGAAACCGGGGCCAGGTT  
GCACCTGGGATTCTCTACGAAATTCAGTAGGAGAGAAGATCCTGTCCCTCCGCAGTTGCTCCCTGGGCTCCCTGG  
GTGCCCTGGGCCCTGCCTGCTGCCGTGTCTCAGTGAGCTCTCTGAGGAGCAGGCCTTTCACGTCAGCTACCTGG  
ATATTGAGGAGCTGAGCCTGAGTGGACTCTGCCAGTGCCCTGGTGGAACTGTCCACCCAGCCGGCCACTGTGTGTC  
ATGGCTCTGCAACCAACAGGGAGGCAGCCCGTGGTGGGCTGCCCGCCGTGCCCTGCAGTACCTCAAGATCATGG  
CAGGCAGCAAGTGAAGCCCCAGCTGGACTCATGGATGTGCACCTTTGCTCCCTGCTCTTTCTGCCTCTGGGCTC  
ATGTATCTGCGCAGCTCTGGTACCCTCTGTGGGTGCCATCTCTACCTCTGACACAGACTGCCTGCCTTGAAGCTG  
AGAAGGCACAGGGCAAGGAGCCAAGGACCACAGAGCCTCAGCCAGCCCAGGATCCGTCCTCATTTTATTGGTGAT  
GATGAATGGGAATGAAATCAGGGGGCTGTCTACTAGAGCCTGGAATAAATATGCTGCTTTGTGGATTTTTAAAAA  
AAAAAAAAAAAAA

3926/6881

**FIGURE 3617**

MSEEEQSGSTTTGCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDT SCTG  
QGSPSKAAKHKAAEVALKHLKGGSMLLEPALEDSSSFSPLDSSLPEDIPVFTAAAAATPVP SVVLTRSPPMELQPP  
VSPQQSECNPVGALQELVVQKGWRLPEYTVTQESGPAHRKEFTMTCRVERFIEIGSGTSKKLAKRNAAAKMLLRV  
HTVPLDARDGNEVEPDDDHFSIGVGSRLDGLRNRGPGCTWDSL RNSVGEKILSLRSCSLGSLGALGPACCRVLSE  
LSEEQAFHVSYLDIEELSLSGLCQCLVELSTQPATVCHGSATTREAAARGEAAARRALQYLKIMAGSK

3927/6881

**FIGURE 3618**

GCCTCTCCAGCTGCGACACAGATGGCGCGCGGGCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGT  
GCCCAAGTGAGTCTTACCGCCTCCCTACCCAGCGGCTTCCCCTCCGCTAGTACGCATGTCCACAGCTTCACGGA  
CCGGGAGAGAGGGGGCGCGGAAGGAAGGAGGCGGGACGGTATTACAAACAAAAAATACGGCCTTCTCGAGAAGC  
GACGGCGGAGGGCCCCGCTCCTCCAGAAGGCGGTGACGCTGCCCGGGCGAGCCACGCACGCAGAGGGTTGTGGG  
GCGGATAGCTCCCCCTCCAGATGGAGGCTCACGAAGTAGGGTGGGCGGGGGACTCCATATCCACAGCGTGCCCCGCG  
GCGGGCCCTACCGGCCGCGACTCCGGGCTTGGCCCCGGCCCTAGCTCGTCGGCTGTGTATTGGGGCGCGTGGAGG  
CTGCAGTCACGGTGGCGCCCCGCGGGACGGAGGAGGAATGAGTGAAGAGGAGCAAGGCTCCGGCACTACCACGG  
GCTGCGGGCTGCCCTAGTATAGAGCAAATGCTGGCCGCCAACCAGGCAAGACCCGATCAGCCTTCTGCAGGAGT  
ATGGGACCAGAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCCGAGGGCCAAGCCCCACCAGCCTAATTTCA  
CCTTCCGGGTACCGTTGGCGACACCAGCTGCACTGGTCAGGGCCCCAGCAAGAAGGCAGCCAAGCACAAAGGCAG  
CTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCGGCCCTGGAGGACAGCAGACTCTTCACTG  
CCTGAGGACATTCCGGTTTTTACTGCTGCAGCAGCTGCTACCCAGTTCCATCTGTAGTCCTAACCAGGAGCCCC  
CCCATGGAAGTGCAGCCCCCTGTCTCCCTCAGCAGTCTGAGTGCAACCCCGTTGGTGCTCTGCAGGAGCTGGTG  
GTGCAGAAAGGCTGGCGGTTGCCGGAGTACACAGTGACCCAGGAGTCTGGGCCAGCCCCACCGCAAAGAATTCACC  
ATGACCTGTGAGTGGAGCGTTTTATTGAGATTGGGAGTGGCACTTCCAAAAAATTGGCAAAGCGGAATGCGGCG  
GCCAAAATGCTGCTTCGAGTGCACACGGTGCCTCTGGATGCCCGGGATGGCAATGAGGTGGAGCCTGATGATGAC  
CACTTCTCCATTGGTGTGGGCTCCCGCTGGATGGTCTTCGAAACCGGGGCCAGGTTGCACCTGGGATTCTCTA  
CGAAATTCAGTAGGAGAGAAGATCCTGTCCCTCCGCACTTGCTCCCTGGGCTCCCTGGGTGCCCTGGGCCCTGCC  
TGCTGCCGTGTCTCAGTGAGCTCTCTGAGGAGCAGGCCTTTCACGTCAGCTACCTGGATATTGAGGAGCTGAGC  
CTGAGTGGACTCTGCCAGTGCCCTGGTGGAACTGTCCACCCAGCCGGCCACTGTGTGTCATGGCTCTGCAACCACC  
AGGGAGGCAGCCCGTGGTGAGGCTGCCCCGCGTGCCTGTCAGTACCTCAAGATCATGGCAGGCAGCAAGTGAAGC  
CCCAGCTGGACTCATGGATGTGCACCCCTTGTCTCCCTGCTCTTCTGCCTCTGGGCTCATGTATCTGCGCAGCTC  
TGGTACCCTCTGTGGGTGCCATCTCTACCTCTGACACAGACTGCCTGCCTTGAAGCTGAGAAGGCACAGGGCAAG  
GAGCCAAGGACCACAGAGCCTCAGCCAGCCAGGATCCGTCCTCATTTTATTGGTGATGATGAATGGGAATGAAA  
TCAGGGGGCTGTCTACTAGAGCCTGGAAATAAATATGCTGCTTTGTGGATTTTAAAAAAAAAAAAAAAAAAAA

3928/6881  
**FIGURE 3619**

MSEEEQSGGTTTGCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSCIG  
QGPSKKAARKHKAEEVALKHLKGGSMLPEALEDSRLFTA

3929/6881  
**FIGURE 3620**

CTCGCGCCTGCAGTTTTTGGCTTTCACCCCCAACCAAGTACCAAGACTTGACCACTCAAAGTCCAGCTCCCCAG  
AACACTGCTCGACATGGACACCGGTGTGATTGAAGGTGGATTAAATGTCACCTCACCATCCGGCTACTTATGCA  
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACG  
TATCAACATCTCAGAAGGGAATTGTCCTGAGAGAATTATCAGTTGGCTGGACCCACTAATGCCATCTTCAAAGC  
CTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGCACAGCTGCCAGTAGACC  
CCCGGTACCCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGATGCAAGATCAA  
GGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTACCCAACTCAACTGAGCGGGCCAT  
CACTATTGCTGGCATTCCACAATCCATCATTGAGTGTGTCAAACAGATCTGCGTGGTCATGTTGGAGACTCTCTC  
CCAGTCCCCCGAAGGGCGTGACCATCCCGTACCGGCCAAGCCGTCCAGCTCTCCGGTCATCTTTGCAGGTGG  
TCAGGACAGGTACAGCACAGGCAGCGACAGTGCAGCTTTCCCCACACCACCCCGTCCATGTGCCTCAACCCGTA  
CCTGGAGGGACCACCTCTAGAGGCCTATACCATTCAAGGACAGTATGCCATTCCACAGCCAGATTTGACCAAGCT  
GCACCAGTTGGCAATGCAACAGTCTCATTTTCCCATGACGCATGGCAACACCGGATTCAGTGGCATTGAATCCAG  
CTCTCCAGAGGTGAAAGGCTATTGGGCAGGTTTGGATGCATCTGCTCAGACTACTTCTCATGAACTACCATTTCC  
AAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTCAGATGTCTGGGGCGCA  
GATCAAAATTGCGAACCCAGTGAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAG  
CCTGGCTCAATATCTAATCAATGTCAGGCTTTTCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAAATGCAGA  
TTCATCCATAATCCCTTTCTGCTGTTCACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAGCGATT  
CAGGTTTTAAATAGTTGTAAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTAATTAAAGCGT  
TTTAATTCCTTT

3930/6881  
**FIGURE 3621**

MDTGVIIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFKAFAMI  
IDKLEEDISSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPNSTERAITIAG  
IPQSIIIECVKQICVVMLETLSQSPPKGV TIPYRKPSSSPVIFAGGQDRYSTGSDSASFPHHTPSMCLNPDLEGP  
PLEAYTIQGQYAIPQPDLT KLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDASAQTTSHELTIPNDLI  
GCIIGRQGA KINEIROMSGAIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

3931/6881  
**FIGURE 3622**

CTCGCGCCTGCAGTTTTTGGCTTTCACCCCAACCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG  
AACACTGCTCGACATGGACACCGGTGTGATTGAAGGTGGATTAAATGTCACCTCACCATCCGGCTACTTATGCA  
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACG  
TATCAACATCTCAGAAGGGAATTGTCTGAGAGAATTATCACTTTGGCTGGACCCACTAATGCCATCTTCAAAGC  
CTTTGCTATGATCATTGACAAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGCACAGCTGCCAGTAGACC  
CCCGGTCACCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGATGCAAGATCAA  
GGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTACCCAACTCAACTGAGCGGGCCAT  
CACTATTGCTGGCATTCCACAATCCATCATTGAGTGTGTCAAACAGATCTGCGTGGTCATGTTGGAGTCCCCCC  
GAAGGGCGTGACCATCCCGTACCGGCCCCAAGCCGTCCAGCTCTCCGGTCATCTTGCAGGTGGTCAGGACAGGTA  
CAGCACAGGCAGCGACAGTGCGAGCTTTCCCCACACCACCCCGTCCATGTGCCTCAACCCTGACCTGGAGGGACC  
ACCTCTAGAGGCCTATACCATTCAGGACAGTATGCCATTCCACAGCCAGATTGACCAAGCTGCACCAGTTGGC  
AATGCAACAGTCTCATTTTCCCATGACGCATGGCAACACCGGATTTCAGTGGCATTGAATCCAGCTCTCCAGAGGT  
GAAAGGCTATTGGGCAGGTTTGGATGCATCTGCTCAGACTACTTCTCATGAACTCACCATTCCAAACGATTTGAT  
TGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTCAGATGTCTGGGGCGCAGATCAAAATTGC  
GAACCCAGTGGAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAATA  
TCTAATCAATGTCAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAAATGCAGATTTCATCCATAAT  
CCCTTTCTGCTGTTACCAACACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAGCGATTCCAGGTTTTAAAT  
AGTTTGTAAATTTTCAGTTCTACACACTTTATCATCCACTCGTGATTTTTTAATTAAAGCGTTTTAATTCCTT



3932/6881  
**FIGURE 3623**

MDTGVIIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFKAFAMI  
IDKLEEDISSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPNSTERAITIAG  
IPQSIIECVKQICVVMLESPPKGV TIPYRKPSSSPVIFAGGQDRYSTGSDSASFPHHTPSMCLNPDLEGPPLEA  
YTIQGQYAIPOPDLT KLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDASAQTTSHELTIPNDLIGCII  
GRQGAKINEIRQMSGAQIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

3933/6881  
**FIGURE 3624**

AGAGCGACGCGGAACCCCGGGCGCCTGGGTCCCCAGCATGATCCTCGGCAGCCTGAGCCGGGCAGGGCCCCCTGCC  
TCTGCTACGGCAGCCCCGATCATGCAGCCCCACTGGACCTCAAGCAGATCCTGCCCTTCCCACTCGAGCCAGC  
CCCTACCCTTGGCCTCTTCAGCAACTACAGCACCATGGACCCCTGTGCAGAAGGCTGTGCTCTCCACACTTTTGG  
GGGACCCTTGCTCAAGACCAAGCGGCCCCGTCATTTCCCTGTAATATCTGTCAAATCCGCTTCAATTCTCAGAGCCA  
GGCTGAGGCGCACTACAAAGGTAATCGCCACGCCCCGACGAGTCAAAGGCATTGAGGCTGCCAAGACCAGAGGCAG  
GGAGCCTGGCGTCCGAGAACCTGGAGACCCAGCTCCCCAGGCAGCACCCCAACAAATGGGGATGGTGTAGCACC  
CCGTCCAGTTTCCATGGAGAATGGACTGGGGCCAGCCCCAGGATCCCCAGAGAAACAGCCTGGCTCCCCATCCCC  
TCCCAGCATTCCGGAGACTGGTCAGGGTGTAAACCAAGGGTGAAGGGGGGACTCCAGCCCCGGCTTCTTGCCTGG  
GGGTAGCAAGGAAGAGGAGGAGAAAGCCAAGCGGCTGCTCTACTGTGCTCTGTGCAAGGTGGCTGTGAATCCCT  
GTCCAGCTTGAGGCACATAACAAAGGTACTAAGCACAAGACAATTCTGGAGGCCCGAAGTGGGCTCGGGCCCCAT  
CAAAGCTTACCCTCGGCTGGGGCCTCCCACCCCGGGGAACAGAGGCTCCTGCCAGGACCGAACTTTCCACTG  
TGAGATCTGCAATGTCAAGGTCAACTCGGAGGTCCAAGTGAACAGCACATCTCCAGCCGGCGGCACCGAGACGG  
CGTGGCCGGGAAGCCCAACCCACTACTGAGCCGTACAAAGAAGTCTAGGGGCGCCGGGGAGCTGGCGGGCACGCT  
GACTTTCTCCAAGGAGCTGCCCAAGTCCCTGGCGGGCGGCTGCTCCCCAGCCCCCTGGCGGTGGCTGCAGTGAT  
GGCAGCGGCAGCAGGCTCGCCGCTGTCCCTGCGCCCGGCTCCAGCCGCACCTCTTCTCCAGGGACCGCCGATCAC  
TCACCTCTGCTTACCCCGCCCCCGGACCCATCCGAAGTGGCACGGACCCATCCTCTTCTCCCCGTACTGACC  
TCAACCCTGAACCCCTCCCATTCAACTCCCCACCTCCAGCCGGGACCCAGGCGTCCGGGCTCCCAGCCCGCCCCCT  
CCTCCCGGCACCTCCCTAAATGATCTCTCCTTCCCCCCCCCACCCTGAGATACGGGGTTCCAGGAAAGGGGAGGG  
GTAGCGGGGGAGGGGGGCTTCAGAAGGGGGGGAACCCCCAGATCTCAGGGGAACCCCGCCCCCTGCCTTTCCCTC  
TCCCTAGAAAAGGGGGGGCGCTCTACCCCCGAGCCCCCTTGAGACACCCCCCTCCCAAAAGCCATGTCCAT  
CCAGCCCTTCCCCCAAACCTAGCACAAAACGGGGTTCAAGCCATGGTCGGGGTCCGGGGGGGACAGAAATGG  
ATTTTCTTGGCAATAAGCGGACTCTGGGACTCCGGCTCCCTACCCCAAAGTGAAGCGCTTCCGTGAACACCCCCG  
TCCTCCGTAGGGGGAGGGGAGCAGGCGGGATCCTGGGTCCCTCATAAGCACTTTGGTTTTACCGCCTGCAACCTC  
ACTGTGCCCCCCCCGCACCATGCCCTAGCCCCAGGTCTAGCCGGGGCCATTGCAGGGGGCAGCACTTGGGGGCAT  
CTCCGGCACTTGGGTGGGACCAAGGAGATGCCACCATAGACCTTTCCCTCGCCTTCTTCTCCCTAGTCCGGGTT  
CCATTCTTTTACCAGCACCCATCGCCCAAGGGGTACCGAGGGGGGAAGGGGTGTCCAGTCCAAGCCCACCCCC  
GCCTCGCCTTCCGCAAACTGTGAGCAAAAAGCAATAGAAGCCTCGCCCCCGCCTTCCCTTTCGAGGATTTCGC  
CGAGTCTGTAGCCTCCCCGATCCAAGTTCCTAGACCTCATGGCTGTCCCCTCCCACAGTCACCTCCACTGCACA  
ACTCGGGCGGGGTGTGACACCTCTCCCCACCCCGACTCCGTGGTTTCCGTATCGTCAACCCTTCAGCCGCCG  
ACCCGGGAGGGGTCTGGCCTACACTGGTCTTCCCTTCCCATCAACTCTTCTGCTTGACAATGTAGCAACCCAG  
GCCCCCACCCACGGTCTCCCTTTTCTCTCCTTGACAATAAAGTCTGAATTGTCTGCCCTCC

3934/6881  
**FIGURE 3625**

MQPPLDLKQILPFPLEPAPTLGLFSNYSTMDPVQKAVLSHTFGGPLLKTTRPVISCNICQIRFNSQSQAEEAHYKG  
NRHARRVKGIEAAKTRGREPGVREPGDPAPPGSTPTNGDGVAPRPVSMENGLGPAPGSPEKQPGSPSPPSIPETG  
QGVTKGEGGTPAPASLPGGSKEEEEKAKRLLYCALCKVAVNSLSQLEAHNKGTKHKKTILEARSGLGPIKAYPRLG  
PPTPGEPEAPAQDRTFHCEICNVKVNSEVQLKQHISRRHRDGVAGKPNPLLSRHKKSRGAGELAGTLTFSKELP  
KSLAGGLLP SPLAVAAVMAAAAGSPLSLRPAPAAPLLQGPPITHPLLHPAPGP IRTAHGPILFSFY

3935/6881

**FIGURE 3626**

AGTTCACCCAATGGACCTGCCTACTGCAGCGTAGGCCTCGCCTCAACGGCAGGAGAGCAGGCGGCTGCGGTTGCT  
GCAGCCTTCAGTCTCCACCCGGACTACGCCATGTTGGGGTTTGTGGGTGCGGTGGCCGCTGCTCCGGCCTCCGGG  
GCCTTGCGGAGACTCACCCCTTCAGCGTCGCTGCCCCAGCTCAGCTCTTACTGCGGGCCGCTCCGACGGCGGTC  
CATCCTGTGAGGGACTATGCGGCGCAAACATCTCCTTCGCCAAAAGCAGGCGCCGCCACCGGGCGCATCGTGCGG  
GTCATTGGCGCAGTGGTGGACGTCCAGTTTGATGAGGGACTACCACCAATTCTAAATGCCCTGGAAGTGCAAGGC  
AGGGAGACCAGACTGGTTTTGGAGGTGGCCAGCATTGGGTGAGAGCACAGTAAGGACTATTGCTATGGATGGT  
ACAGAAGGCTTGTTAGAGGCCAGAAAGTACTGGATTCTGGTGCACCAATCAAAATTCCTGTTGGTCCTGAGACT  
TTGGGCAGAATCATGAATGTCATTGGAGAACCTATTGATGAAAGAGGTCCCATCAAAACCAAACAGTAAATTTGC  
TCCCATTATGCTGAGGCTCCAGAGTTCATGGAAATGAGTGTGAGCAGGAAATTCCTGGTGACTGGTATCAAGGT  
TGTCGATCTGCTAGCTCCCTATGCCAAGGGTGGCAAATTTGGGCTTTTGGTGGTGCTGGAGTTGGCAAGACTGT  
ACTGATCATGGAGTTAATCAACAATGTCGCCAAAGCCCATGGTGGTTACTCTGTGTTTGGTGGTGGTGAGAG  
GACCCGTGAAGGCAATGATTTATACCATGAAATGATTGAATCTGGTGTATCAACTTAAAAGATGCCACCTCTAA  
GGTAGCGCTGGTATATGGTCAAATGAATGAACCACCTGGTGCTCGTGCCCGGGTAGCTCTGACTGGGCTGACTGT  
GGCTGAATACTTCAGAGACCAAGAAGGTCAAGATGTACTGCTATTTATTGATAACATCTTTCGCTTCACCCAGGC  
TGGTTCAGAGGTGTCTGCATTATTGGGCCGAATCCCTTCTGCTGTGGGCTATCAGCCTACCCTGGCCACTGACAT  
GGGTACTATGCAGGAAAGAATTACCACTACCAAGAAGGGATCTATCACCTCTGTACAGG

3936/6881

**FIGURE 3627**

MYCYLLITSFASPRLVQRCLHYWAESLLLWAISLPWPLTWVLCRKELPLPRDLSPLYRLSMCLLMT

3937/6881  
**FIGURE 3628**

CTTGGTTCGCGTTCCCTGCACAAAATGCCCCGGCGAAGCCACAGAAACCGTCCCTGCTACAGAGCAGGAGTTGCC  
GCAGCCCCAGGCTGAGACAGGGTCTGGAACAGAATCTGACAGTGATGAATCAGTACCAGAGCTTGAAGAACAGGA  
TTCCACCCAGGCAACCACACAACAAGCCAGCTGGCGGCAGCAGCTGAAATTGATGAAGAACCAGTCAGTAAAGC  
AAAACAGAGTCGGAGTGAAAAGAAGGCACGGAAGGCTATGTCCAAACTGGGTCTTCGGCAGGTTACAGGAGTTAC  
TAGAGTCACIATCCGGAATCTAAGAAATATACTCTTTGTCATCACAAAACCAGATGTCTACAAGAGCCCTGCTTC  
AGATACTTACATAGTTTTTGGGGAAGCCAAGATCGAAGATTTATCCAGCAAGCACAACTAGCAGCTGCTGAGAA  
ATTCAAAGTTCAAGGTGAAGCTGTCTCAAACATTCAAGAAAACACACAGACTCCAAGTGTACAAGAGGAGAGTGA  
AGAGGAAGAGGTCGATGAAACAGGTGTAGAAGTTAAGGACATTGAATTGGTCATGTCACAAGCAAATGTGTGCGAG  
AGCAAAGGCAGTCCGAGCCCTGAAGAACAACAGTAATGATATTGTAAATGCGATTATGGAATTAACAATGTAACC  
ATATGGAAGCAACTTTTTTTGGTGTCTCAAAGGAGTAACTGCAGCTTGGTTTGAAATTTGTACTGTTTCTATCAT  
AAATAAAGTTATGGCTTCTTGTTGGAAAAAAAAAAAAAAAAAAAAA

3938/6881  
**FIGURE 3629**

MPGEATETVPATEQELPQPQAETGSGTESDSDESVPLEEQDSTQATTQQAQLAAAAEIDEEPVSKAKQSRSEKK  
ARKAMSKLGLRQVTGVTRVTIRKSKNILFVITKPDVYKSPASDTYIVFGEAKIEDLSQQAQLAAAEKFKVQGEAV  
SNIQENTQTPTVQEESEEEEEVDETGVEVKDIELVMSQANVSRAKAVRALKNNSNDIVNAIMELTM

3939/6881  
**FIGURE 3630**

CTGAGGGGTGTACATTTTATTGGAAACCTTAAATACTGTTTCAGAAAGAATATATCTTCAATCAAGGCTCTTGTGC  
AGCCTACACAGAAAAATGAAGCTTTTGGGTAGGGGCAAGGAGAGAGACAGTACAGAGGACAAAGACCCCTCAC  
GATGAATGCTCTTCAGCCAGCTTATCAGCTTTGCCACAGCTTCTTCAATGGGTCCCACCATATAGAAGGCCTGT  
TCTGGGAGATGGTCATATTCACCTGCCAAAATCTGCTGGAATCCTTTGATGGTCTCCTTCAGGGGTACCAGCTTC  
CCCATATGACCTGTGAAGACCTCAGCAACCTGGAATGGCTGAGACAAGAAACGCTGTATTTCCGTGCACGGGACA  
CGGTCAACTTGTCTTCCTCAGAAAGTTCATCCATACCCAGGATGGCAATGATATCTGGAAGGAATTTGTAGTCCT



3940/6881  
**FIGURE 3631**

CCTATTCTACGGCTGACCCCTGGTGGTCACGTGGATCTGTTGCCACGCAAGTCTGGGTCCTTCGGCGATTGACC  
GGGGTCCTTGCTGTTTCGGGAGCCTCTCCTAAGCTGCCTGTTTCGCGCGAGAGTTTGAGAGGGGCGGGTTTGGGGTCG  
GTGTCTGATTGGGGCTCGCACCGCAGCACGCTGGAGTCCCGCTTAGGTACCAGTTAGCGTCAGGGGAGCTGGGTC  
AGGCGGTCGCCGGGACACCCCGTGTGTGGCAGGCGGCCAAGCGCTCTGGAGAATCCCGGACAGCCCTGCTCCCTG  
CAGCCAGGTGTAGTTTCGGGAGCCACTGGGGCCAAAGTGAGAGTCCAGCGGTCTTCCAGCGCTTGGGGCCACGGCG  
GCGGCCCTGGGAGCAGAGGTGGAGCGACCCCAATTACGCTAAAGATGAAGGCTGGGGTTGGCTGGCCCTGCTTCT  
GGGGGCCCTGCTGGGAACCGCCTGGGCTCGGAGGAGCCAGGATCTCCACTGTGGAGCATGCAGGGCTCTGGTGGA  
TGAAGTAGAATGGGAAATTGCCAGGTGGACCCCAAGAAGACCATTTCAGATGGGATCTTTCGGGATCAATCCAGA  
TGGCAGCCAGTCAGTGGTGGAGGTGCCTTATGCCCGCTCAGAGGCCACCTCACAGAGCTGCTGGAGGAGATATG  
TGACCGGATGAAGGAGTATGGGGAACAGATTGATCCTTCCACCCATCGCAAGAACTACGTACGTGTAGTGGGCCG  
GAATGGAGAATCCAGTGAAGTGGACCTACAAGGCATCCGAATCGACTCAGATATTAGCGGCACCCCTCAAGTTTGC  
GTGTGAGAGCATTGTGGAGGAATACGAGGATGAACTCATTGAATTCCTTTCCCGAGAGGCTGACAATGTTAAAGA  
CAAACCTTTGCAGTAAGCGAACAGATCTTTGTGACCATGCCCTGCACATATCGCATGATGAGCTATGAACCACTGG  
AGCAGCCCACACTGGCTTGATGGATCACCCCAAGGAGGGGAAAATGGTGGCAATGCCTTTTATATATTATGTTTT  
TACTGAAATTAAGTAAAAAATATGAAACC

3941/6881  
**FIGURE 3632**

MKGWGWLALLLGALLGTAWARRSQDLHCGACRALVDELEWEIAQVDPKKTIQMGsFRINPDGSQSVVEVPYARSE  
AHLTELEEICDRMKEYGEQIDPSTHRKNYVRVVGNGESSELDLQIRIDSDISGTLKFACESIVEEYEDELIE  
FFSREADNVKDKLCSKRTDLCdHALHISHDEL

3942/6881  
**FIGURE 3633**

GGCCTCATCATTTCTGTCTCCTGTTTCTCCACTTCCTTCTCTATTGGTTGGTCCACTGATGTATGGACTTGCACA  
TGATGAACTGTGAACTTCTAGCCACATGTAGTGCCCTTGGGTACTTGGAGGGAGACACTTACCATAAGGAACCAG  
ATTGCTTAGAGAGCGTGAAGGATCTGATCCGCTATTTGAGGCATGAGGATGAGACACGAGATGTGCGGCAGCAGC  
TGGGGGCAGCCCAGATCCTACAGAGCGACCTTCTGCCCCATCTCAGCCAGCACCACCAGGACAAGCCTCTCTTTG  
ATGCTGTTATCCAGACTGATGGTGAACCTTGACACAACCAGCCTTGCTCTGTTTGGCAATCTGCCTAAGGAGCCC  
AGCTTTCGGCACCATTTTTTGTCAGGTGCTAACTTATTTGCAGGCCTACAAAGAGGCCTTTGCCAGTGAGAAGGCT  
TTTGGAGTCTCAGTGAAACCTTGTATGAGCTGCTGCAGCTGGGCTGGGAGGAACGGCAGGAGGAAGACAACCTG  
CTGATTGAACGGATCCTACTGCTGGTCAGAAATATTCTCCATGTCCCAGCTGACCTTGATCAGGAGAAGAAGATT  
GATGATGACGCCAGTGCCCATGACCAGCTCCTCTGGGCGATTACCTCAGCGGCCTGGATGACCTGCTCCTCTTT  
CTGGCCAGCTCGTCTGCTGAGGAGCAATGGAGCCTACATGTGCTAGAGATTGTCTCCCTTATGTTTCGTGACCAG  
AACCCCGAGCAGCTGGCGGGAGTAGGGCAGGGACGCTTAGCTCAGGAGCGGAGTGACAGATTTGCAGAACTGGAG  
GTATTGCGCCAGCGAGAGATGGCAGAAAAGAACTCGAGCCCTCCAGCGAGGCAACAGGCATTCTCGATTGGG  
GGCTCCTATATTGTCCAGGGGTTGAAATCCATTGGGGAGAGGGACCTCATCTTTCACAAAGGCCTTCACAACCTA  
CGAAACTACAGTTCAGATTTGGGAAAGCAGCCGAAAAAGGTGCCTAAACGTGCGCCAGGCCGCCGAGAGCTGTCC  
ATTCAGCGCCGTTCTGCCCTCAATGTGAGGCTCTTCCTCAGAGACTTCTGCTCTGAGTTCCTGGAGAACTGTTAC  
AACCGGCTCATGGGATCAGTAAAGGATCACCTGCTTCGGGAGAAAGCTCAGCAGCATGATGAGACCTATTATATG  
TGGGCTTGGCTTTCTTCATGGCCTTCAACCGAGCTGCCTCCTTCCGGCCAGGCCTGGTTTCTGAGACCCTCAGT  
GTCCGTACCTTCCACTTCATTGAGCAGAACCTCACCAACTACTATGAGATGATGCTGACTGACCGCAAGGAAGCT  
GCCTCCTGGGCACGCCGGATGCACTTGGCTCTGAAGGCCTATCAGGAGCTGCTGGCAACAGTGAATGAGATGGAC  
TTATCTCCAGATGAGGCTGTGAGGGAGAGCAGCCGCATCATCAAGAACAATATTTTCTATGTGATGGAGTACCGA  
GAACTATTCTGGCACTTTTTCGAAAGTTTGATGAGAGATGCCAGCCCCGCTCTTTCCTTCGTGACCTGGTGGAG  
ACCACCCACCTCTTCCTCAAAATGTTGGAGCGATTCTGTGCGAGCCGTGGGAACCTGGTGGTGCAG

3943/6881  
**FIGURE 3634**

ATGGAGGTGACATCATGTGGACAACAGGCTAGGATGCCAGAGTTAGCTGCTCGGTGGAGATCATTGAGAATGCA  
TCTTGTCTTGTCTTGCAGCCCGGCATGCCAGTGCTTCCTCCACGAATTTGAAAGACATATTGGCTGACCTGATA  
CCTAAGGAGCAGGCCAGAATTAAGACTTTCAGGCAGCAACATGGCAAGACGGTGGTGGGCCAAATCACTGTGGAC  
ATGAAAAGTAAACTACACCTGACGCTGAGACTCAAAGTGTGCAAGAGTCCCAAGGACAAAGAGGAGGGCCTGAA  
GGACCCACTCTTGTGCTCGGCGTGGTCACCGAAGGCTTAAATAATAGGCTTGGAGAAATGGAAACAGGCAGTTCG  
GGAAGTACAAGGCCCTTCCTACAAAGCAGAGGACGAAATTAGCCACTGCTCCAGAGTGA

3944/6881

**FIGURE 3635**

GAGGACCCCGGGCTGGGCGCCGCCGCCGATCCCGGAGATCGCCGCCATGGCTTTACTTACTGCGGCCGCCCGGC  
TCTTGGGAACCAAGAATGCATCTTGTCTTGTTCCTTGCAGCCCGGCATGCCAGTGCTTCCTCCACGAATTTGAAAG  
ACATATTGGCTGACCTGATACCTAAGGAGCAGGCCAGAATTAAGACTTTCAGGCAGCAACATGGCAAGACGGTGG  
TGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATTGGTCTATGAAACATCAGTTC  
TTGATCCTGATGAGGGCATCCGTTTCCGAGGCTTTAGTATCCCTGAATGCCAGAACTGCTACCCAAGGCTAAGG  
GTGGGGAAGAACCCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGACATATCCCAACAGAGGAACAGGTAA  
AGCAGAAGGATATTATTAGCTCTTCTCATTCCCTTCTTCATTGCCTTTCTCTAATCTCAGACACTTAATGCTGA  
TCCGGCATTATATAGAGATGCGTAGTGAAGGGAAGGAATCAGCAGAGTTCTGCTGTATAAATGGATTGGGTTGACC  
TCTCTTGGGTTTTCTTTACTCAGATGTTGCTGTCCTTTTTTATTTTTCTCCTTCCTTGTCTTCTGCTGGTGTCTG  
AGCACTGTCTCTTTTTCCACAGGTATCTTGGCTCTCAAAGAGTGGGCAAAGAGGGCAGCTCTGCCTTCCCATGT  
GGTCACCATGCTGGACAACTTTCCACCAATCTACCCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAA  
CAGTGAAAGTAACTTTGGCCGAGCATATGCACAGGGTATCAGCCGAACCAAGTACTGGGAGGTAGGAAATTTGGG  
TGGGGTGATCGGTGTGTGATG

3945/6881  
**FIGURE 3636**

GCTAATGAATGAATGTGATCATTAAAAAGAAAGTCTCTTTTCAGTATGAGAGAGAGAAAACAGAAGTAGTAGTGGT  
TGTGAGACAACCTTCAACAAGAAGTGGCTGACAGCGTAAAAAATAACGACGTTAGAGTCTCCACTGGAAGGTAT  
ATCATGTTGTGACATTAATTTGGATGAGACACAGGCCTCAAATAAGAAATTATTTCAAGTGAAAAGTCAAATATA  
AGAAACTCCTGGAAATGACAATAAATATGTTAAATGTATTTGGAAATGAAGACTTTGATTGCCATGGAGACTTAA  
AAACAGATCAACTGAAAATGGATATTCTGATTAAGAAGCTAAAAACAGAAGTTTGATGATCTTACAGCACAGAAGG  
AAGCTTTATCTTCAAAATGTGTCAATTTGGCTAAAGACAATCAAGTTCTTCAACAGGAGTTTTTATCTATGAAAA  
AAGTACAACAGCAATGTGAAAACTTGAGGAGGATAAAAAGATGTTGAAAGAAGAAATATTAAATCTTAAGACAC  
ATATGGAAAACAATAGGGTAGAAATTAGTAAACTACAAGATATAAATTGGAGCTAGATGAAAAGGCAATGCAGG  
CAGTAGAAAAAATTAGAAGAAATCCATTTACAGGAACAAGCACAATATGAAAAACAATTAGAGCAGTTAAACAAGG  
ATAATATGGCTTCACTAAATAAAAAGGAACTCACACTTAAAGATGTGGAATGTAAATTCTCAGAAATGAAAAGT  
CTTATGAAGAGGTTACAACCGAATTAGAAGAATATAAGGAAGCCTTTGCAGCAGCATTGAAAGCTAAACAATTCCA  
TGTCAAAAAAGTTAACAAAATCAAATAAGAAAATAGCAGTGATTAGCATGAAGCTCCTCATGGAGAAAAGAGCAGA  
TGAAATATTTTCTCAGTGCTCTTCTTACAGGCGAGACCCAGAGTCACCTTGTGTTGAAAATCTTACTAGTATAG  
GACTCAACAGAAAATATATTCCCCAACACCCATAAGAATTCCATTTTCAAGCCACAGACTTCAAAATAACTGCA  
AGAACTCCTAGACTGTGATGGAGCTGGACTGTGTAGAACAAATAACTAGAGAAAACAAAGAGAATTGTTGCTGTGT  
TGAACACTTGCTCCCGTCTACTTACTTCTCTATAATCCACTGCCATGGAATGAGTGATTTTTCTTAGAAGCAGAG  
GTGGAGCCACTGAGGAAGCACAGGCGAGCCCTCCCCAGCACGTGCTCACTGGTCCCCAACAGAACACCGCTGCC  
GCATCCATGAGGCTCCCATTTGTGGTGGGTTGTGTGTCACCCACAATGTCACCTGTTGCTGAGCCCCCATCGCCTCTG  
TGTTGTGGAGCAGTTAGAGACACACTGTGGTGTCTGAGTGGCTCTGTGTGAAGGACCGTTTTCTAGGTGAGAGGC  
ACATCTCAACACAGCTGACTGATCAGACTCAACCATTTTGACACCCCTGGTCAGAATGAAACATTCTTGGGAAC  
TCGGGCCGTGAGAAGCATCCTTCCTGATCACTGACTGTAGAAACATCCTTATCGCACCCCTCCCGGGCAAAGGCC  
CAACAGCCTGACTGCAGGAACATCCTTGCCATATCCTGCCGGGCAGCAAGCTCTACCGCCACGCCCTCCTTCC  
CAGTCCCATGATCACCCAGCCTGTGAGAGGCAGTTGGTGTGGCAGTAAGCTGGTTTCTCTCTGTCAGGGTTT  
TGCTAGTAATAAAGGTGTTGCTGTTGAAGCCGTCAAAAAAAAAAAAAAAAAAGGCCAGCATCGAGTCGGCCTTGT  
TGGATTCTGGGGCCGAGGTCGAGCCCGCCGCTGCCGCCGTGCGCTGAGGGAAGCGAGAAGAGCCGCGACCGGA  
GAGAAAAAGCGGAGTCGCCACCGGAGAGAAGTCGACTCCCTAGCAGCAGCCGCCGAGAGAGCCCGCCACCA  
GTTCCGCCGTCCCTTGCCCCGTTTCAATGCAGCCTGCTTCTGCAAAGTGGTACGATCGAAGGGACTATGTCTT  
CATTGAATTTTGTGTTGAAGACAGTAAGGATGTTAATGTAAATTTGAAAAATCCAACTTACATTAGTTGTCT  
CGGAGGAAGTGATAATTTAAGCATTTAAATGAAATTGATCTTTTCACTGTATTGATCCAAATGATTCCAAGCA  
TAAAGAACGGACAGATCAATTTTATGTTGTTTACGAAAAGGAGAATCTGGCCAGTCATGGCCAAGGTTAACAAA  
AGAAAGGGCAAAGCTTAATTGGCTTAGTGTGCACTTCAATAATTGGAAGACTGGGAAGATGATTAGATGAAGA  
CATGTCTAATTTTGATCGTTTCTCTGAGATGATGAACAACATGGGTGGTGATGAGGATGTAGATTACCAGAAGT  
AGATGGAGCAGATGATGATTCACAAGACAGTGATGATGAAAAATGCCAGATCTGGAGTAAGGAATATTGTCTATC  
ACCTGGATTTTGAGAAAGAAAAATAACTTCTCTGCAAGATTTCATAATTGAGAGAATTCCTGAGTTGATAGCTCT  
AAAGGCAGATATGCTGTATTTGCCTACTTTAACCCATTTTCAACCTGTTTGTGTTTTTAAAGGCTTCACTAAGG  
GTTGATATGTACCATTTGATGGGGCAATTTAAGTCAGCTAAGGCAATAACCTTATGCATGAGCATTTCAGAG  
TTTCTTTCATAACATAGATACTGACATGATAGGAAGCTCTCAGCTTAGGGAAAGAGAATAAATTTAGATTATAG  
AACATGGATTCAAAGTGACTGGAACAAATTGGCTGACACCTTACTGGTAACCTGCTATTCTTCTGGTGTATCC  
TTCAGGATTGTTCCACTAAAATTTATTTTCAAAAAATTTACTTCACATTATTCTATGTAAGTGATGACTTGTC  
GTGTTCCAGGTGTATCTTAGCTAAACTAGAGAATGCCCTAACTTAGATGGTTTTTGAAGCCTATACAATTGGTA  
TTGTTTGACCCTTAAGCTTTTACATCTCTTAGCATGGAGGACGAAGAAGCTGTACATTGTTGCTTGAGAGTCTG  
TACATTTAGTCCAGATTGTATTTGCACTGTGAGTGGCAATGAGTGAAAAATGTTTAAATACACTATTGGATT  
TTTTATTTCTTTTTTTGATTGAGCTTATACCCGGGCTGAAAACCTCAATTTATGTTTATGACAGTGGGGATTT  
TTAAATGTCTACATTCTTTCTAATAAACTGTTGGAAGACTT

3946/6881

**FIGURE 3637**

MTINMLNVFGNEDFDCHGDLKTDQLKMDILIKKLKQKFDDLTAKQALSSKCVNLAKDNQVLQQEFLSMKKVQQQ  
CEKLEEDKKMLKEEILNLKTHMENNRVEISKLQEYKLELDEKAMQAVEKLEEIHLQEQAYEKQLEQLNKDNMAS  
LNKKELTLKDVECKFSEMKTAYEEVTTLEEEYKEAFAAALKANNMSKKLTKSNKKIAVISMKLLMEKEQMKYFL  
SALPTRRDPESPCVENLTSIGLNRKYIPQTPIRIPISSPQTSNNCKNS

3947/6881  
**FIGURE 3638**

GACGACCTGTCTCGCTGCGTGACGCCCTGCCGCCGCCCGCAGAAATGCTTCGGTTACCCACAGTCTTTCGCCA  
GATGAGACTGGTGTCCAGGGTGTGGCTCCTCATCTCACTGGGGCTTATGCCAAAGATGTAAAATTCGGTGCAGA  
TGCCCGAGCCTTAATGCTTCAAGGTATAGACCTTTTAGCCGATGCTGTAGCCCTTACAATGGGGCCAAAGGGAAG  
AAGAACAGTGATTATCGAGCAGAGCTGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAAT  
TGACTTAAAGGATAAATATAAAAAACATTGGAGCTAAACTTGTTCAGATGTTGCCAATAACACAAATGAAGAGAC  
TGGGGATGGCCCTACCACTGCTACTGTACTGGCACGCTCTATAGCCAAGGAAGGCATCGAGAAGATTAGCAAAGG  
TGCTAATCCAGTGGAATCAGGAGAGGTGTGATGTTAGTTGTTGATGCTGTAATTGCTGAACTTAAAAAGCAGTC  
TAAACCTGTGACCACCCCTGAAGAAATTGCACAGGTGTCTACAATTTCTGCAAACGGAGACAAAGAAATTGGCAA  
TATCTCTGATGCAATGAAAAAGGTTGGAAGAAAGGTTGTCATCACAGTAAAGGATGGAAAAACACTGAATGATGA  
ATTAGAAATTATTGAAGGCATAAAGTTTGATCGAGGCTATATTTCTCCATACTTTATTAATACATCAAAGGTCA  
GAAATGTGAATTCCAGGATGCCTATGTTCTGTTGAGCGAAAAGAAAATTTCTAGTGTCCAGTCCGTTGTACCTGC  
TCTTGAAATTGCCAATGCTCACCCTAAGCCTTTGGTCATAATCGCTGAAGACGTTGATGGAGAAGCTCTAAGTAC  
ACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGATGTGGCAATCAAGGCTCCAGGGTTTGGTGACAATAGAAA  
GAACCAGCTTAAAGATATGGCAATTGCTACTGGTGGTGCAGTGTGTTGGAGAAGAGGGGCTGACCCTAAATCTTGA  
AGATGTTACAGCTCATGACTTAGGAAACGTTGGAGAGGTCATTGTGACCAAAGATGATGCCACGCTCTTAAAAGA  
AAAAGGTGACAAGGCTCAAATTGAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACACTAGTGAATA  
TGAAAAGGAAAAACTGAATGAACGGCTGGCAAACTTTTCAGATGTAGTAGCTGTGCTGAAGGTTGGTGGGACAAG  
TGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTCCGGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGAAGGC  
TTTGTATTGGGAGGGGGTTGTGCCCTGCTTCGATGCATTCTAGCCTTGGACTCATTGACTCCAGCTAATGAAGAT  
CAAAAAATTGGTACAGAAATTATTAAAGAACACTCAAAATTCAGCAATGACCATTGCTAAGAATGCAGGTGTTG  
AAGGATCTTCGATAGTTGAGAAAATTACGCAAATTCCTCAGAAGCTGGTTATGATGCTATGGTTGGAGATTTTG  
TGAATATGGTGGAAAAATGAATTATTGACCCAACAAAGGTTGTGAGAACTGCTTTATTGGATGCCGCTGGTGTGA  
CCTCTCTGTTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCTGGAATGGGTGCAA  
TGGGTAGAAATGGGAGGTGGTATGGGAAGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTATTAATGAAC  
TGTGACAGGAAGCCCAAGGCAGTGTTCCTCACCAATAACTTCAGAGAAGTCAGTTGGAGAAAAATGAAGAAAAAG  
GCTGGCTGAAAATCACTATAACCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGCTGTCATT  
GTCCATGCCATAGATAATTTATTTGTATTTTGAATAAAAAACATTTGTACATTCCTGATACTGGGTAAAAGA  
GCCATGTACCAATGTATGGCTTCAACTTAAATCACTGAGGCATTTTACTACTATTCTGTTAAAATCAGGATTT  
TTAGTGCTTGCCACCACCAGATGAGAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACAAAGTAG  
AGAAATATCCAATTATGTGACAACTTTTGTGTAATAAAAAATTTGTTTAAAGTT



3948/6881  
**FIGURE 3639**

MLRLPTVFRQMLVSRVLAPHLTGAYAKDVKFGADARALMLQGIDLLADAVALTMGPKGRRTVIEQSWGSPKVT  
KDGVTVAKSIDLDKYKNIGAKLVQDVANNNTNEETGDGPTTATVLARSIAGEGIEKISKGANPVEIRRGVMLVVD  
AVIAELKKQSKPVTTPEEIAQVATISANGDKEIGNISDAMKKVGRKGVITVKDGKTLNDELEIEGKFDGRYIS  
PYFINTSKGQKCEFQDAYVLLSEKKISSVQSVPALEIANAHKPLVIAEDVDGEALSTLVNLRLKVGLQDVAI  
KAPGFGDNRKNQLKDMAIATGGAVFGEEGLTLNLEDVQPHDLGNVGEVIVTKDDATLLKEKGDKAQIEKRIQEI  
EQLDVTTSEYEKEKLNERLAKLSDVAVLKVGTSDEVNKKDRVRMPLMLQELLKKALYWEGVVPCFADF

3949/6881  
**FIGURE 3640**

GTGCGGTGGTCAGGAACGAGGAGACTCCACTAAGTTCCTTGTGTTGCCTTCATTTTCATTCCCCAACCCCCAAT  
GAATTTTAGCCAAATGGAGCGGAGTCCCTGAAAGATTTTGGCAGGAAGATCTGGAAGAAGAGGAAAACCTGCCT  
GAGGAAGACAGCGAAGAGGAAGAAGAAGGGGGCTCAGAAGCAGAACAAGTCCAGGGTAGCTTAGTCCTTTCAAAT  
GAAAACCTTGGTCAAAGCCTGCATCAGGAAGGCTTTTCTATCCCGCTCCTATGGCTCCAGAACTGCCTGATCCGA  
GCAGCTGATGATCGGGAAGAGGATGGCTGCTCCAGGCCGTTCCATTGGTGCCACTCACAGAGGAAAATGAGGAA  
GCCATGGAAAACGAACAGTTTCAGCAGCTGTTGCGCAAGCTAGGGGTTTCGGCCCCCTGCCTCTGGGCAGGAAACC  
TTCTGGCGAATTCCAGCCAAGCTGAGTCTACCCAGCTCCGGAGGGCAGCAGCTTCTTTGAGTCAACCAGAGGAG  
GAACAGAAGCTGCAGCCAGAGCTGCAGCCTAAAGTCCCTGGAGAGCAAGGCTCTGATGAGGAGCACTGTAAAGAG  
CACCGAGCACAAGCCCTGAGGGCCCTCTTGCTAGCCCCACAAGAAGAAAGCGGGCCCTGGCATCCCCAGAGGAGGAA  
GACGCTGTTGGTAAAGAGCCGCTGAAGGCAGCACCCAAGAAACGACAATTGCTGGACAGCGACGAGGAACAGGAA  
GAAGATGAGGGCAGGAACAGAGCACCAGAGTTGGGAGCTCCAGGAATCCAAAAGAAGAAACGATACCAGATTGAG  
GATGATGAGGATGACTGAAGAGCTAAGAAGCCTAGGGGTAGAGATAGACACGTTTTTAGATGGTGCATTCAAGTC  
AGAGTTGGAAGGGTCATACAGGACCCAGAAGCTCCTCTTACTGGACAGAGCAGTAGAATCCAGGCTCTTTACG  
GATTTAGGCTGAGAACTTCAGCAGCAGTATTGGACTTCTCTGCTGTCAGTCTTTGTTTCTCCAGTTTTTATCG  
GTATGCCCCAGCAGCTCTCTGGAGATTTAGTTCCTTCTTCTTAGGAACCATTTCTTTTGTTATTGGAGCTCCTT  
AGCAAATAAGAGGAGTGAGTGAAATAGAGAAAGCACCCCGGACCCCTTTTATTGGTCTGTTCCCTTTGGCTTTCTC  
TTGGAGGTGGGTGCGCAGCACCAGATGGGGAGCTTTATGACATGACAGGCGGGAGTTTGTACCACTTTTAGAAGA  
TACCAGATGCCTCTGTCTCATTTTTGTTTCCTATGATCATCCTCTAGATACCAGATAGAGGCCCATTCCTGCATT  
TGAGATAGGGTTGGAATATAGTACTCTAGATGATGAATGTGTTTGTCTTTGTGTTTGGTATTAAACATGTAAGATT  
AGAAGTTCTCATCTCAGTCTGACTTGCGGATATGTCTAAGTTCCCCAGCCCTTCCCCTGCTGTGCTCTTGAAAGA  
AGAACTTAACAATTTTAGGGTAAAAAGAGACCAACAGACCGGCACAGTGGCTCAAACCTGTTGTCCTAGCACTTT  
GGGAGGCTGAGGCGGGCGGATCACCTGAGGTGAGGAGTTGAGACCGGCCTGGACAATATGGCGAAATCCCATCT  
CCACTAAAAATACAAAAATTAGCCGGCCATGGTGGCATGCGCCTGTAATCCCAGCCACTCGGGTGGCTGAGGCAG  
GAGAATTGCCTGAACCCAGGAGGCAGAGGTTGCAGTGAGCTAAGGTCACGCCAGTGCATATGCCTGGGCGACAGA  
GCAAGACTCTGTCTCAAAAAAAGAAAAAAGACCAACAACCTTCCCTTTTCTCCGCTTCCCTACAG  
AAGACACAGAAAAGCATTTTTGCTCTAGATCCTTTGTCTAGGGTAAATTCTTAGGGTGACAAGAGTATGCGGC  
AGGAAGAAGGAGGAGCCATAAAGGAAGAGAAGCCAGCTTGTTGGCATGGGGCATAGAAAAGGACAAAATCTAGGC  
ATGAAAAGGATGGATAAATACTGCAAATATTATGTTCTTACCCATTCTTGAAACGTCAGCTTTCTTGCTTCCTG  
TGCTTCAGCCGAGGTAGGGCAAAGGTGAGATTGAGAAAATAGCCATTCAGCTCAGGAAGGCTTCTAAGTAAAGG  
ATGGATTGGGA

3950/6881  
**FIGURE 3641**

AGTTGATTTATGAAGACTCTATGGATCTAATCGCAAAGCTACCTTGTGTTGCAGCAAAGATCTACCGAAATCTCT  
ACAGAGAAGGCAGCGGTATTGGGGCCATTGACTCTAACCTGGACTGGTCTCACAATTTACCAACATGTTAGGCT  
ATACTGATCATCAGTTCAGTCTGAGCTCACGCGCCTGTACCTACCATCCACAGTGACCATGAGGGTGGCAATGTAA  
GTGCCCATAACAGCCATTTGGTGGGCAGTGCCCTTTCCGACCCTTACCTGTCCTTTGCAGCAGCCATGAACGGGC  
TGGCAGGGCCTCTCCATGGACTGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCA  
AAGATGTGTCAGATGAGAAGTTACGAGACTACATCTGGAACACACTCAACTCAGGACGGGTTGTTCCAGGCTATG  
GCCATGCAGTACTAAGGAAGACTGATCCGCGATATACCTGTCAGCGAGAGTTTGCTCTGAAACACCTGCCTAATG  
ACCCCATGTTTAAGTTGGTTGCTCAGCTGTACAAGATTGTGCCCAATGTCTCTTAGAGCAGGGTAAAGCCAAGA  
ATCCTTGGCCCAATGTAGATGCTCACAGTGGGGTGCTGCTCCAGTATTATGGCATGACGGAGATGAATTACTACA  
CGGTCTGTTTGGGGTGTCACGAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTC  
TAGAAAGGCCCAAGTCCATGAGCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAA

3951/6881  
**FIGURE 3642**

AAAGCTTGTTTGGACGACCTTCGTCTGGGATGCACTCTTCTCTCCTTCACCTACAAATGATAGAGGATTACGAA  
GAACTATACGGTTGGCTCCTCTTTCTTTGGCCTTAGGTTTCTGACCTCCTGCAGCCTCCTCTTGCCTCGGGCTG  
CCCAGATCTTGGCGGCTGAGGCTGGCTTACCTTCGAGCCGTTCCCTTCATGGGATTGCTGCTCCCTTCACCAACA  
AGCGAAAGGCTTACTCGGAGCGTAGAATCATGGGGTACTCAATGCAGGAGATGTATGAGGTGGTGTCCAACGTCC  
AGGAGTATCGTGAGTTTGTGCCCTGGTGTAAAGAAGTCTCTGGTGGTATCCAGCCGTAAGGGTCATTTGAAAGCCC  
AGCTGGAGGTTGGCTTTCCACCTGTTCATGGAACGTTACACCTCTGCAGTTTCCATGGTCAAACCTCACATGGTCA  
AGGCTGTTTGTACTGATGGCAAGCTCTTCAACCACTTAGAGACTATTGGCGATTGAGCCCTGGTATTCCTGCCT  
ATCCTCGAACCTGCACTGTGGACTTTTCGATTTCCTTTGAATTCGTTCTCTGCTGCACTCCCAGCTGGCCACCA  
TGTTTTTTGATGAGGTTGTCAAACAGAATGTTGCTGCCTTTGAGCGTCGGGCAGCCACCAAGTTTGGTCCAGAAA  
CAGCCATCCCCGTGAACTGATGTTCCATGAGGTGCACCAGACTTGAGGCAAGGGATTGCTCCCTGACCTCCCTT  
CTACCCCACTTCCCTACACAATTCTCTTATTTATTTGGTTTGGCTCCTGTTCCAATTTGAAAGGAGTCTGTGTTT  
ATAATACTGTTTCTCCTCTCAATTTCCCAGAAATTGGGTTCTATGCTGGCTGGAAATGTGGGGGAAAGAGAAGG  
CAAAGGATGTGGAAATGAGATGTGCTTAGGAAAGGGTCAGGCCCATCGTAGGAGCACCATATGCCTGCAGCCTTT  
TCACTACGAATTAGAATAAGGACTATGTGGTTGTCTCTGGACCTTATCAAGACACCTTAGTGTCTGACCAGGGGA  
CGATAGTAACTTTCTAAGGATTGAATAAATTGAGCTTTTCTTCTGGCACAGAGGTACTGAGTGGTAAGTAACCT  
TTACCTGCCTGAGATTCTTCAGGAGAAAAGGCAACCTGCCTCCAGCCTGAAATACATAAAGCCTCATTTTAAGA  
CTGTAAGTCCATGCTGCCTGGCTACTAGAGAGCAAGGGGCTTTCTTACCACCAAGTGTGAGGAGAAAAGTACTGA  
ACGGAAACGGAGTTGTCTTTGTACTCTTGAGTTGTACCTTATTCTTCCACTTGGCCTGAGTTTTTATAAAATTC  
AATAAATTGTGACAGTGTG

3952/6881  
**FIGURE 3643**

GGCACGAGGAGGGGTTGAGGCTGCCTGACCCCAGCCTAATGGGGTAGGTAGGCCTTGGGAAGTGGAGCATGGGGG  
CAAAGGATCCAAGCATTGAGCCTTCATCCTCTATTCCCCATCCAGTGGGGTGCCGAGGCTCAGGCAGCATGACGA  
CGGAGACCTTTGTGAAGGATATCAAGCCTGGGCTCAAGAATCTGAACCTTATCTTCATTGTGCTGGAGACAGGCC  
GAGTGACCAAGACAAAGGACGGGCATGAGGTTTCGGACCTGCAAAGTGGCGGACAAAACAGGCAGCATCAATATCT  
CTGTCTGGGACGATGTTGGCAATCTGATCCAGCCTGGGGACATTATCCGGCTCACCAAAGGGTACGCTTCAGTTT  
TCAAAGGTTGTCTGACACTATATACTGGCCGTGGGGGTGATCTGCAGAAGATTGGAGAATTCTGTATGGTTTATT  
CTGAGGTTCCCTAACTTCAGTGAGCCAAACCCAGAGTACAGCACCCAGCAGGCACCCAACAAGGCGGTGCAGAACG  
ACAGCAACCCTTCAGCTTCCCAGCCTACCACTGGACCCTCTGCTGCCTCTCCAGCCTCTGAGAACCAGAATGGGA  
ATGGACTGAGTGGCCCAACAGGTCCCGGTGGTGGCCACATCCCCCTCATACTCCCTCCCACCCACCCAGCACCC  
GAATCACTCGAAGCCAGCCCAACCACACACCTGCAGGCCCGCCTGGCCCTTCCAGCAACCCTGTTAGTAACGGCA  
AAGAAACCCGGAGGAGCAGCAAGAGATAGCATGACATTCTTTCTTCCCTGCCACCAACCACATCCCAAGTGTCCCC  
TGGAGAGCAAGATAGCCTTCCACTGATTGGCTGGTGTAGCAGTATTTTAGCCACTGAACTTCACTGGAGGGTGGT  
GAGCAGTGTCTTATCCACCCTAATCTCATACTCCCTCATTGTCCAGCTGAACTACCTGTCCCTGGGAGTCAGG  
ACCTCTGCCTGCTCTCTTTCTCTTTAGAAATGGCAGTTACTGGCTGGGCGCAGTGGCTCACGCTTGTAATCCC  
AGCACTTTGGGAAGCCGAGGTGGGCGGATCACCTGAGGTCGGGAGTTCAAGACCAGCCTGACCAACATGGAGAAA  
CCCCGTGTCTACTAAAATACAGAATTAGCCAGGCATGGTGGCGTATGCCTGTAATCCCAGCTACTTAGGAGGCT  
GAGGCAGGAGAATCTCTTGAAACCGGGAGGCGGAGGTTGAGGTGAGCCGAAATTGCACCATTGCACTCCAGCCTG  
GGCAATAAGAGCGAACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3953/6881  
**FIGURE 3644**

MTTETFVKDIKPGLKNLNLIFIVLETGRVTKTKDGHEVRTCKVADKTGSINISVWDDVGNLIQPGDIIRLTGYA  
SVFKGCLTLYTGRGGDLQKIGEFCEMVEVPNFSEPNPEYSTQQAPNKAVQNSNPSASQPTTGPSAASPASENQ  
NGNGLSAPPGPGGGPHPPHTPSHPPSTRITRSQPNHTPAGPPGPSSNPVSNGKETRRSSKR

3954/6881  
**FIGURE 3645A**

GGCGGGCGGCGGCGGGGCCCCGAGCCGGAGAAGATGGCGGTGCGGAAGAAGGACGGCGGGCCCCAACGTGAAGTACT  
ACGAGGGCCGCGGACACCGTGACCCAGTTCGACAACGTGCGGCTGTGGCTCGGCAAGAAGTACAAGAAGTATATAC  
AAGCTGAACCCACCAACAAGTCCCTGTCTAGCCTGGTTGTACAGTTGCTACAATTTCAAGGAGGAGGCTCCT  
GCAAACATGTCAGCAATGCACCGCTCACTAACTGCCGATCAAATGTTTCCTAGATTTCAAAGCGGGAGGCTCCT  
TGTGCCACATTCTTGCAGCTGCCTACAAATTCAGAGTGACAGGGATGGCGCGTTACGATTTCCAGAATCCAT  
CACGCATGGACCGCAATGTGGAATGTTTATGACCATTGAGAAGTCCTTGGTGCAGAATAATTGCCTGTCTCGAC  
CTAACATTTTCTGTGCCGAGAAATGAGCCCAACTACTAGGGAAATTAAAGGACATTATCAAGAGACACCAGG  
GAACAGTCACTGAGGATAAGAACAATGCCCTCCCATGTTGTGTATCCTGTCCCGGGGAATCTAGAAGAAGAGGAAT  
GGGTACGACCAGTCATGAAGAGGGATAAGCAGGTTCTTCTGCACTGGGGCTACTATCCTGACAGTTACGACACGT  
GGATCCAGCGAGTGAAATGAGGCATCTGTGAAGATGCTCCAACCTCTGAGAAACCTAGGAAGGTTTCATGCAA  
AGTGGATCCTGGACACCGACACCTTCAATGAATGGATGAATGAGGAAGACTATGAAGTAAATGATGACAAAACC  
CTGTCTCCCGCGGAAAGAAGATTTAGCCAGACACTGACAGATGAGGTGAACAGCCAGATTAGATCGACGGG  
ACAAGAAGGGGGGAAACTATAAGAAGAGGAAGCGCTCCCCCTCTCCTTACCAACCCAGAAAGCAAGAAGAAAA  
ATGCTAAGAAAGGTCCCTCAACACCTTACACTAAGTCAAAGCGTGGCCACAGAGAAGAGGAGCAAGAAGACCTGA  
CAAAGGACATGGACGAGCCCTCACCAGTCCCAATGTAGAAGAGGTGACACTTCCCAAAACAGTCAACACAAAGA  
AAGACTCAGAGTCGGCCCCAGTCAAAGGCGGCACCATGACCGACCTGGATGAACAGGAAGATGAAGCATGGAGA  
CGACGGGCAAGGATGAGGATGAGAACAGTACGGGGAACAAGGGAGAGCAGACCAAGAATCCAGACCTGCATGAGG  
ACAATGTGACTGAACAGACCCACCACATCATCTTCCAGCTACGCTGCCTGGTTTGACTACAATAGTGTTCATG  
CCATTGAGCGGAGGGCTCTCCCGAGTTCTTCAACGGCAAGAACAAGTCCAAGACTCCAGAGATCTACCTGGCCT  
ATCGAACTTTATGATTGACACTTACCGACTGAACCCCCAAGAGTATCTTACCTCTACCGCCTGCCGCCGAAACC  
TAGCGGGTGATGTCTGTGCCATCATGAGGGTCCATGCCTTCCTAGAACAGTGGGGTCTTATTAACCTACCAGGTGG  
ATGCTGAGAGTCGACCAACCCCAATGGGGCCTCCGCCTACCTCTCACTTCCATGTCTTGGCTGACACACCATCAG  
GGCTGGTGCTCTGTCAGCCCAAGACACCTCAGGGCCGCCAGGTTGATGCTGATACCAAGGCTGGGCCGAAAGGGCA  
AAGAGCTGGATGACCTGGTGCCAGAGACGGCTAAGGGCAAGCCAGAGCTGCAGACCTCTGCTTCCCAACAAATGC  
TCAACTTTCTGACAAAGGCAAGAGAAACCAACAGACATGCAAACTTTGGGCTGCGCACAGACATGTACACAA  
AAAAGAATGTTCCCTCCAAGAGCAAGGCTGCAGCCAGTGCCACTCGTGAGTGGACAGAACAGGAACCCCTGCTTC  
TCCTGGAGGCACTGGAAATGTACAAAGATGACTGGAACAAAGTGTCCGAGCATGTGGGAAGCCGCACACAGGACG  
AGTGCACTTGCATTTTCTTCTGCTTCCCATTTGAAGACCCATACCTGGAGGACTCAGAGGCCTCCCTAGGCCCCC  
TGGCCTACCAACCCATCCCCTTCACTCAGTCGGGCAACCCCTGTTATGAGCACTGTTGCCCTCCTGGCCTCTGTG  
TCGATCCCCGAGTCGCCTCTGCTGCTGCAAGTACGCCCTAGAGGAGTTCTCCAAATGAAGGAAGAGGTACCCA  
CGGCCTTGGTGGAGGCCCATGTTGAAAAGTGAAGAAGCAGCCAAAGTAACAGGCAAGGCGGACCCCTGCCTTCG  
GTCTGGAAGCAGTGGCATTGCAGGAACCACTCTGATGAGCCTGAGCGGATTGAGGAGAGCGGGAATGACGAGG  
CTCGGGTGAAGGCCAGGCCACAGATGAGAAGAAGGAGCCCAAGGAACCCGAGAAGGAGGGGTGCTATAGAGG  
AGGAAGCAAAAGAGAAAACAGCGAGGCTCCCAAGAAGGATGAGGAGAAAGGGAAGGAGGACAGTGAGAAGG  
AGTCCGAGAAGAGTGATGGAGACCCAATAGTCGATCCTGAGAAGGAGAAGGAGCCAAAGGAAGGGCAGGAGGAAG  
TGCTGAAGGAAGTGGTGGAGTCTGAGGGGGAAGGAAGACAAAGGTGAGCGGGACATTGGCGAGGGCAACCTCT  
CCACCGCTGCTGCCCGCCCTGGCCGCCGCGCAGTGAAAGCTAAGCACTTGGCTGCTGTTGAGGAAGGAAGA  
TCAAATCTTTGGTGGCCCTGCTGGTGGAGACCCAGATGAAAAGTTGGAGATCAAACCTTCGGCACTTTGAGGAGC  
TGGAGACTATCATGGACCGGGAGCGAGAAGCACTGGAGTATCAGAGGCAGCAGCTCCTGGCCGACAGACAAGCCT  
TCCACATGGAGCAGCTGAAGTATGCGGAGATGAGGGCTCGGCAGCAGCACTTCCAACAGATGCACCAACAGCAGC  
AGCAGCCACCACAGCCCTGCCCCAGGCTCCACGCTATCCCCCAACAGGGGCTGCTGGGCCACCCGAGTCC  
ATGGCTTGGCTGTGGCTCCAGCCTCTGTAGTCCCTGCTCCTGCTGGCAGTGGGGCCCTCCAGGAAGTTTGGGCC  
CTTCTGAACAGATTGGGCAGGCAGGGTCAACTGCAGGGCCACAGCAGCAACCAGCTGGAGCCCCCAGCCTG  
GGGAGTCCCACAGGGGTCCCCCCCCCTGGACCCCATGGCCCTCACCGTTCCCCAACCAACAACTCCTCCCT  
CAATGATGCCAGGGGAGTGCCAGGCAGCGGCACCCAGGCGTGGCGGACCCAGGCACCCCTGCTCCAGACC  
CCACAGCCCCGAGCCAGGCACGGTCACCCCTGTGCCACCTCCACAGTGAAGAGCCAGCCAGACATCTCTCCCC  
TCACCCCTGTGGACATCACGGTTCCAGGAACAGCCCTTCCCCCACCCTGGGACCCCTCCACAGCCTGGAGAGTT  
CATCACTACGTAAGGAAGCTCCTTCCGCCCTCCAAAGCCCTACCATGCCTAACAGAGGCATGCATTTTTATA

3955/6881

**FIGURE 3645B**

TCAGATTATTCAAGGACTTCTGTTTAAAAGATGTTTATAATGTCTGGGAGAGAGGATAGGATGGGAATGCTGCCC  
TAAAGGAAGGGCTGGTGAAAGGTGTTTATACAAGGTTCTATTAACCACTTCTAAGGGTACACCTCCCTCCAACT  
ACTGCATTTTCTATGGATTAAAAAAGTAGATTTTAAAAAGCCACATTGGAGCTCCCTTCTACCC  
ACTAAAAATAACCAATTTTACATTTTGGAGGGGAGTGAGTTTGGGAAAGGGGAATTAAGATTCCAGGGAG  
AGCTCTGGGGATAGAACAGGGCGCAGATTCCATCTCTCCCAAGCCCTTTTGTAGTACTAAGTCAAGGCCCAA  
CTCCCTCCCCACCTACGCTGAGCTTATTCGAGTTCATTTCGTAATAATCCCTCCTGCGGCTTCCTCATTG  
TTGCTGTTTTAGGCCACCCAGCTCAGCCAATGATTCCTTCCCTCTGAATGTCAGTTTGTGTTTTAAAGTCAC  
TTGCTTAGTTGATGTCAGCGTATGTGTATTTGGTGGGAAAACCTAATTCGGGGATTCTGTGGTAGGTAATAG  
GAGAAGAAAGGGCACTGGGGGCTGTCTCCTTCCTTCCCTGGGCTGTATCCATGGACTCCTGGAAGGCACAGAGA  
AGGGAGCTATAAGAGGATGTGAAGTTTAAAACCTGAAATTGTTTTTAAAGCACTTAAGCACCTCCATATTATG  
ACTTGGTGGGTACCCCTTAGCTTCCCTCCTCCCAAGACTATGAGAACTTCAGCTGATAGCTGGGGGCTC  
CCCAGATGAGGATGCAGGGATTGGGAGCAGTGGAAGAGGGTGCCCAACCTTGGGTTGGACCAACCCTTGGCTCG  
CAGCTCAACTCTGCTTCCCGCATTCCGCTCCACGTGTCCAGCTTCTCCCTGTGACGGGAAGGCAGGTGTGAC  
TCCAGGCTCTGCACTGGTTCTTCTTGGTTCCCTCCACCAGGCCCTTGTTCCTCATGICCCCATGTTTCTCTCC  
TCTGCGTCTTAGCACCTTCTTCTGTTCAAAGTTTCTGTAAATTTCTCTTTTTTCTTTCTTTCTTTTTTT  
TTTTTATAAATTAATTGCTTTCAGTTCATCTTGTGGGTGCATTCTGTGTTCTTACCTGTGGCTGTGAGGCAGG  
GGGATTGTGATGGGAG



3956/6881  
**FIGURE 3646**

ATTACTGCAGGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGAGTT  
CAAGGAGGCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTGATGAG  
GGCCCTGGGCCAGAACCTTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGATGAATGT  
GAAGGTGCTGGACTTTGAGCACTTTCTGCCCCATGCTGCAGACAGTGGCCAAGAACAAGGACCAGGGCACCTATGA  
GGATTATGTCGAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGGTGCTGAAATCCGGCATGT  
TCTTGTCACACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGG  
TTGTATCAACTATGAAGCGTTTGTGAGGCATATCCTGTCTGGGGTGACGGGGCCCATGGGGCGGAGCTCGTCCGCAT  
GGTGCTGAATGGCTGAGGACCTTCCCAGTCTCCCCAGAGTCCGTGCCTTTCCCTGTGTGAATTTGTATCTAGCC  
TAAAGTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTGGATGATGTTTGCCGTCAGCAT  
TCACCAAATAAACTTGCTCTCTGGGCCTC

3957/6881

**FIGURE 3647**

MCDFTEDQTAEFKEAFQLFDRTGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEHFLPMLQ  
TVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIRHVLVTLGEKMTEEEVEMLVAGHEDSNGCINYEAFVRHILS  
G

3958/6881

**FIGURE 3648**

GGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGAGTTCAAGGAGGC  
CTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTGATGAGGGCCCTGGG  
CCAGAACCCTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGATGAATGTGAAGGTGCT  
GGACTTTGAGCACTTTCTGCCCATGCTGCAGACAGTGGCCAAGAACAAGGACCAGGGCACCTATGAGGATTATGT  
CGAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGGTGCTGAAATCCGGCATGTTCTTGTCTCAC  
ACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGGTTGTATCAA  
CTATGAAGAGCTCGTCCGCATGGTGCTGAATGGCTGAGGACCTTCCCAGTCTCCCCAGAGTCCGTGCCTTTCCCT  
GTGTGAATTTTGTATCTAGCCTAAAGTTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTG  
GATGATGTTTGCCGTCAGCATTACCAAATAAACTTGCTCTCTGGGAAAAA

3959/6881

**FIGURE 3649**

MRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEHFLPMLQTVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIR  
HVLVTLGEKMTTEEEVEMLVAGHEDSNGCINYEELVRMVLNG

3960/6881

**FIGURE 3650**

ATTACTGCAGGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGATCT  
GATCCCAAGCACTGAGTTCAAGGAGGCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCA  
GTGTGGGGATGTGATGAGGGCCCTGGGCCAGAACCTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCAA  
GAGTGATGAGATGAATGTGAAGGTGCTGGACTTTGAGCACTTTCTGCCCATGCTGCAGACAGTGGCCAAGAACAA  
GGACCAGGGCACCTATGAGGATTATGTGCAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGG  
TGCTGAAATCCGGCATGTTCTTGTACACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGG  
GCATGAGGACAGCAATGGTTGTATCAACTATGAAGCGTTTGTGAGGCATATCCTGTCGGGGTGAACGGGCCCCATGG  
GGCGAGCTCGTCCGCATGGTGCTGAATGGCTGAGGACCTTCCCAGTCTCCCCAGAGTCCGTGCCCTTCCCTGTGT  
GAATTTGTATCTAGCCTAAAGTTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTGGATG  
ATGTTTGCCGTCAGCATTACCAAATAAACTTGCTCTCTGGG

3961/6881  
**FIGURE 3651**

MCDFTEDQTADLIPSTEFKEAFQLFDRTGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEH  
FLPMLQTVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIRHVLVTLGEKMTTEEVEMLVAGHEDSNGCINYEAF  
VRHILSG

3962/6881  
**FIGURE 3652**

CCCTCGAGAGCGGCTAGAGTCTGGCGGCCGAGAGGACTAGTTGTCCAGCGTGCCCTGCGCCTCAGCCCGCGCGC  
TCGCAGCTTCTCGCTCTCGCCTGCCTGCCCCTCCCTTGCTTGCTCGCGCTTTCGCTCGCCCTCTCCTCGAGGAT  
CGAGGGGACTCTGACCACAGCCTGTGGCTGGGAAGGGAGACAGAGGCGGCGCGGCTCAGGGGAAACGAGGCTGC  
AGTGGTGGTAGTAGGAAGATGTCGGGCGAGGACGAGCAACAGGAGCAAACATATCGCTGAGGACCTGGTCGTGACC  
AAGTATAAGATGGGGGGCGACATCGCCAACAGGGTACTTCGGTCCCTTGGTGGAAGCATCTAGCTCAGGTGTGTCG  
GTAAGTACTGAGCCTGTGTGAGAAAGGTGATGCCATGATTATGGAAGAAACAGGGAAAATCTTCAAGAAAGAAAAGGAA  
ATGAAGAAAGGTATTGCTTTTCCACCAGCATTTCGGTAAATAACTGTGTATGTCACTTCTCCCCCTTGAAGAGC  
GACCAGGATTATATTCTCAAGGAAGGTGACTTGGTAAAAATTGACCTTGGGGTCCATGTGGATGGCTTCATCGCT  
AATGTAGCTCACACTTTTGTGGTTGATGTAGCTCAGGGGACCCAAGTAACAGGGAGGAAAGCAGATGTTATTAAG  
GCAGCTCACCTTTGTGCTGAAGCTGCCCTACGCCTGGTCAAACCTGGAAATCAGAACACACAAGTGACAGAAGCC  
TGGAACAAAGTTGCCCACTCATTTAACTGCACGCCAATAGAAGGTATGCTGTACACACAGTTGAAGCAGCATGTC  
ATCGATGGAGAAAAAACCATTTATCCAGAATCCACAGACCAGCAGAAGTAGGTGCCAACCCCTACTTATTACCTTC  
TACCACACAAGACTAGTCATCAGGTTTTTTTTCTATACTCCCACTGAATCTTGTCCGCCCTCTACTCCATGTTTT  
CAGGAGTGACCTGTTGCTCTTAATATTCCCTTCTCTAGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCAC  
TTTGGGAGGCTGAGGCGGGTGGATCACCTGAGGTCACGAGTTCAGAACCAGCCTAACCAACATGGCGAAACCCTG  
TCTCTACTAAAAACTACAAAAATGAGCCAGGCCTGGTGGTTTTGTGCCTATAGTCCCAGCTACTTGGGAGGCTGAG  
GCAGGAGAGTTGCTTGGACCCGGGAGGTGGAGGTTGCAGTGAGCTGAGATTGTGCCACTGCCTCCAGCCTGGGT  
GACAGAATGAGACTCTGTGTCGAAGGACCATGAAAAAGCTGAATTTGAGGTACATGAAGTATATGCTGTGGATGT  
TCTCGTCAGCTCAGGAGAGGGCAAGGTGAGGAGAGTACCAGAGTTGGCAAAGAGGGGTGACTGAGAGTGTTACC  
AGACCAATGTTACTTAAATTACTCTTTTACGGCCAAGGATGCAGGACAGAGAACCCTATTTACAAACGAGACCC  
CTCTAAACAGTATGG

3963/6881

**FIGURE 3653**

MSGEDEQQEQTIAEDLVVTIKYKMGGDIANRVLRLSLVEASSSGVSVLSLCEKGDAMIMEETGKIFKKEKEMKKGIA  
FPTSISVNNCVCHFSPKSDQDYILKEGDLVKIDLGVHVDGFIANVAHTFVVDVAQGTQVTGRKADVIKAAHLCA  
EAALRLVKPGNQNTQVTEAWNKVAHSFNCTPIEGMLSHQLKQHVIDGEKTI IQNPTDQQK



3964/6881  
**FIGURE 3654**

ACCCGGCGCTCCATTAAATAGCCGTAGACGGAACCTTCGCCTTTCTCTCGGCCTTAGCGCCATTTTTTTGGAACC  
TCTGCGCCATGAGAGCCAAGTGGAGGAAGAAGCGAATGCGCAGGCTGAAGCGCAAAGAAGAAAGATGAGGCAGA  
GGTCCAAGTAAACCGCTAGCTTGTTGCACCGTGGAGGCCACAGGAGCAGAAACATGGAATGCCAGACGCTGGGGA  
TGCTGGTACAAGTTGTGGGACTGCATGCTACTGTCTAGAGCTTGCTCTCAATGGATCTAGAACTTCATCGCCCTCT  
GATCGCCGATCACCTCTGAGACCCACCTTGCTCATAAACAAAATGCCCATGTTGGTCCTCTGCCCTGGACCTGTG  
ACATTCTGGACTATTTCTGTGTTTATTTGTGGCCGAGTGTAAACAACCATATAATAAATCACCTCTCCGCTGTTT  
TAGCTGAAGAATTAAATCAAAAAAAAAA

3965/6881  
**FIGURE 3655**

MRAKWRKKRMRRLLKRKRRKMRQRSK

3966/6881

**FIGURE 3656**

CCTGTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGCCA  
CGTGCAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTG  
AAACATAGTGGAGGCCGAGCAGTCAGGGACATTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCT  
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG  
CAAGGACCGAACACCCCCACCCCGATTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGG  
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAATTGTACTTAAAAAAAAA  
AAAAAAAAA

3967/6881

**FIGURE 3657**

MTKKRRNNGRAKKGRGHVQPIRCTNCARCVPKDKAIKKEVIRNIVEAAAVRDI SEASVFDAYVLPKLYVKLHYCV  
SCAIHSKVVRNRSREARKDRTPPPRFRPAGAAPRPPPKPM

3968/6881  
**FIGURE 3658**

CCCCATCCCTTCCCCGGCTCCCCCGGTGTCCGCCATGGCCAAAGCCTACGACCACCTCTTCAAGTTGCTGCTGAT  
CGGGGACTCGGGGGTGGGCAAGACTTGTCTGATCATTTCGCTTTGCAGAGGACAACCTTCAACAACACTTACATCTC  
CACCATCGGAATTGATTTCAAGATCCGCACTGTGGATATAGAGGGGAAGAAGATCAAACCTACAAGTCTGGGACAC  
AGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCGTGGAGCCATGGGCATTATCCTAGCATACGA  
CATCACGGATGAGAAATCTTTTCGAGAATATTAGAACTGGATGAAAAGCATCATGGAGAATGCCTCAGCTGGGGT  
GGAGCACCTCTTGCTAGGGAACAAATGTGACATGGAGGCCAAGAGGAAGGTGCAGAAGGAGCAGGCCGATAAGTT  
GGCTCGAGAGCATGGAATCCGATTTTTTCGAAACTAGTGCTAAATCCAGTATGAATGTGGATGAGGCTTTTAGTTC  
CCTGGCCCGGGACATCTTGCTCAAGTCAGGAGGCCGGAGATCAGGAAACGGCAACAAGCCTCCCAGTACTGACCT  
GAAAACCTTGTGACATAAAGAACACCAACAAGTGCTCCCTGAGCTGAGGACCCTTTCTTGCTCCCCACCCCGGAA  
GCTGAACCTGAGGGAGACAACAGCAGAGGGAGTGAGCAGGGGAGAAATAGCAGAGGGGCTTGGAGGGACACATAG  
GTAGATGGTAAAGAGAATGAGGAGAAAAAGGAGAAAAGGGAAAAGCAGAAAGGAAAAGAAGGAAAAGAGAGGAAG  
GGAGAAGGGAGAGGAATGAATTGAGGAAGTGAACGAAGGCAAGGAGGTAGGAAGAGAGGGAGGAGGAAAGGAAGG  
AGAGATGCCTCAGGCTTCAGACCTTACCTGGGTTTTTCAGGGCAACATAAATGTAAATACACTGATTTATTCTGT  
TACTAGATCAGGTTTTAGGGTCCTGCAAAGGGCTAGCTCGGCACTACACTAGGGAATTTGCTCCTGTTCTGTCAC  
TTGTCATGGTCTTTCTTGGTATTAAAGGCCACCATTTGCACAAAAAATAAATAAA

3969/6881  
**FIGURE 3659**

GGAAGCAGGGGCGGGGCTCTGGTGGCGGTTCGGGAACTCGGTGGGAGGCGGCAACATTGTTTCAAGTTGGCCAAA  
TTGACAAGAGCGAGAGGTATACTGCGTTCCATCCCGACCCGGGGCCACGGTACTGGGCCCTGTTTCCCCCTCCTC  
GGCCCCCGAGAGCCAGGGTCCGCCCTTCTGCAGGGTTCAGGCCCCCGCTCCAGGGCCGGGCTGACCCGACTCGC  
TGGCGCTTCATGGAGAACTTCCAAAAGGTGGAAAAGATCGGAGAGGGCACGTACGGAGTTGTGTACAAAGCCAGA  
AACAAGTTGACGGGAGAGGTGGTGGCGCTTAAGAAAATCCGCCTGGACACGTGAAGTGAAGGTGTGCCAGTACT  
GCCATCCGAGAGATCTCTCTGCTTAAGGAGCTTAACCATCCTAATATTGTCAAGCTGCTGGATGTCATTACACA  
GAAAATAAACTCTACCTGGTTTTTGAATTTCTGCACCAGATCTCAAGAAATTCATGGATGCCTCTGCTCTCACT  
GGCATTCTCTTCCCCCTCATCAAGAGCTATCTGTTCCAGCTGCTCCAGGGCCTAGCTTTCTGCCATTCTCATCGG  
GTCTCCACCGAGACCTTAAACCTCAGAATCTGCTTATTAACACAGAGGGGGCCATCAAGCTAGCAGACTTTGGA  
CTAGCCAGAGCTTTTGGAGTCCCTGTTTCGTACTTACACCCATGAGGTGGTGACCTGTGGTACCGAGCTCCTGAA  
ATCTCTCTGGGCTGCAAATATTATTCCACAGCTGTGGACATCTGGAGCCTGGGCTGCATCTTGTCTGAGATGGTG  
ACTCGCCGGGCCCCCTATCCCTGGAGATTCTGAGATTGACCAGCTCTTCCGGATCTTTCGGACTCTGGGGACCCCA  
GATGAGGTGGTGTGGCCAGGAGTTACTTCTATGCCTGATTACAAGCCAAGTTTCCCCAAGTGGGCCCCGGCAAGAT  
TTTAGTAAAGTTGTACCTCCCCCTGGATGAAGATGGACGGAGCTTGTATCGCAAATGCTGCACTACGACCCTAAC  
AAGCGGATTTTCGGCCAAGGCAGCCCTGGCTCACCTTTCTTCCAGGATGTGACCAAGCCAGTACCCCATCTTCGA  
CTCTGATAGCCTTCTTGAAGCCCCCAGCCCTAATCTCACCTCTCCTCCAGTGTGGGCTTGACCAGGCTTGGCCT  
TGGGCTATTTGGACTCAGGTGGGCCCTCTGAACCTTGCTTAAACACTCACCTCTAGTCTTGGCCAGCCAACTCT  
GGGAATACAGGGGTGAAAGGGGGGAACCAAGTGAAGGAAGTTTTCAGTATTAGATGCACTTAAGTTAGCC  
TCCACCACCTTTCCCCCTTCTCTTAGTTATTGCTGAAGAGGGTTGGTATAAAAAATAATTTAAAAAAGCCTTCC  
TACACGTTAGATTTGCCGTACCAATCTCTGAATGCCCCATAATTATTATTTCCAGTGTTTGGGATGACCAGGATC  
CCAAGCCTCCTGCTGCCACAATGTTTATAAAGGCCAAATGATAGCGGGGGCTAAGTTGGTGCTTTTGAGAACCAA  
GTAAAACAAAACCACTGGGAGGAGTCTATTTAAAGAATTCGGTTGAAAAAATAGATCCAATCAGTTTATACCTT  
AGTTAGTGTTTTCCTCACCTAATAGGCTGGGAGACTGAAGACTCAGCCCGGGTGGGGCTGCAGAAAAATGATTG  
GCCCCAGTCCCCCTGTTTGTCCCTTCTACAGGCATGAGGAATCTGGGAGGCCCTGAGACAGGGATTGTGCTTCAT  
TCAATCTATTGCTTACCATGGCCTTATGAGGCAGGTGAGAGATGTTTGAATTTTCTCTTCTTTTAGTATTC  
TTAGTTGTTAGTTGCCAAGGATCCCTGATCCCATTTTCTCTGACGTCCACCTCCTACCCCATAGGAGTTAGAA  
GTTAGGGTTTAGGCATCATTTTGAGAATGCTGACACTTTTTAGGGCTGTGATTGAGTGAGGGCATGGGTAAAAA  
TATTTCTTTAAAGAAGGATGAACAATTATTTATATTTTTCAGGTTATATCCAATAGTAGAGTTGGCTTTTTTTT  
TTTTTTTTTGGTCATAGTGGGTGGATTTGTTGCCATGTGCACCTTGGGGTTTTGTAAATGACAGTGCTAAAAAAA  
AAAGCATTTTTTTTTTATGATTGTCTCTGTACCTTGTCTTGAGTGCTCTTGCTATTAAACGTTATTTGTAAT  
TTAGTTTGTAGCTCATTAAAAAATGTGCCTAGTTTATA

3970/6881

**FIGURE 3660**

ATGGATCTGGTGCTAAAAAGATGCCTTCTTCATTTGGCTGTGATAGGTGCTTTGCTGGCTGTGGGGGCTACAAAA  
GTACCCAGAAACCAGGACTGGCTTGGTGTCTCAAGGCAACTCAGAACCAGGCTGGAACAGGCAGCTGTATCCA  
GAGTGGACAGAAGCCCAGAGACTTACTGTCTGGAGAGGTGGTCAAGTGTCCCTCAAGGTCAGTAATGATGGGCTT  
ACACTGATTGGTGCAAAATGCCTCCTTCTCTATTGCCCTTGAACCTCCCTGGAAGCCAAAAGGTATTGCCAGATGGG  
CAGGTTATCTGGGTCAACAATACCATCATCAATGGGAGCCAGGTGTGGGGAGGACAGCCAGTGTATCCCCAGGAA  
ACTGACGATGCCTGCATCTTCCCTGATGGTGGACCTTGGCCATCTGGCTCTTGGTCTCAGAAGAGAAGCTTTGTT  
TATGTCTGGAAGACCTGGGGCCAATACTGGCAAGTTCAGGGGGCCCAGTGTCTGGGCTGAGCATTGGGACAGGC  
AGGGCAATGCTGGGCACACACACCATGGAAGTGACTGTCTACCATCGCCGGGGATCCCGGAGCTATGTGCCTCTT  
GCTCATTCCAGCTCAGCCTTACCATTAAGTACCAGGTGCTTTCTCCGTGAGCGTGTCCAGTTGCGGGCCTTG  
GATGGAGGGAACAAGCACTTCCCTGAGAAATCAGCCTCTGACCTTTGCCCTCCAGCTCCATGACCCAGTGGCTAT  
CTGGCTGAAGCTGACCTCTCCTACACCTGGGACTTTGGAGACAGTAGTGGAAACCTGATCTCTCGGGCACTTGTG  
GTCACTCATACTTACCTGGAGCCTGGCCAGTCACTGCCAGGTGGTCTGCAGGCTGCCATTCTCTACCTCC  
TGTGGCTCCTCCCCAGTTCCAGGCACACAGATGGGCACAGGCCAACTGCAGAGGCCCTAACACCACAGCTGGC  
CAAGTGCTACTACAGAAGTTGTGGGTACTACACCTGGTCAAGCGCCAACTGCAGAGCCCTCTGGAACCACATCT  
GTGCAGGTGCCAACCCTGAAGTCATAAGCACTGCACCTGTGCAGATGCCAACTGCAGAGAGCACAGGTATGACA  
CCTGAGAAGGTGCCAGTTTCAGAGGTCTAGGGTACCACACTGGCAGAGATGTCAACTCCAGAGGCTACAGGTATG  
ACACCTGCAGAGGTATCAATTGTGGTGCTTTCTGGAACCACAGCTGCACAGGTAACTACAGAGTGGGTGGAG  
ACCACAGCTAGAGAGCTACCTATCCCTGAGCCTGAAGGTCCAGATGCCAGCTCAATCATGTCTACGGAAAGTATT  
ACAGGTTCCCTGGGCCCCCTGCTGGATGGTACAGCCACCTTAAGGCTGGTGAAGAGACAAGTCCCCCTGGATTGT  
GTTCTGTATCGATATGGTTCCTTTTCCGTACCCCTGGACATTGTCCAGGGTATTGAAAGTGCCGAGATCCTGCAG  
GCTGTGCCGTCCGGTGAGGGGGATGCATTTGAGCTGACTGTGTCTGCCAAGGCGGGCTGCCCAAGGAAGCCTGC  
ATGGAGATCTCATCGCCAGGGTGCCAGCCCCCTGCCAGCGGCTGTGCCAGCCTGTGCTACCCAGCCAGCCTGC  
CAGCTGGTTCTGCACCAGATACTGAAGGGTGGCTCGGGGACATACTGCCTCAATGTGTCTCTGGCTGATACCAAC  
AGCCTGGCAGTGGTCAGCACCCAGCTTATCATGCCTGGTCAAGAAGCAGGCCTTGGGCAGGTTCCGCTGATCGTG  
GGCATCTTGCTGGTGTGATGGCTGTGGTCCTTGATCTCTGATATATAGGCGCAGACTTATGAAGCAAGACTTC  
TCCGTACCCAGTTGCCACATAGCAGCAGTCACTGGCTGCGTCTACCCCGCATCTTCTGCTCTTGTCCCATTGGT  
GAGAATAGCCCCCTCCTCAGTGGGCAGCAGGTCTGA

3971/6881

**FIGURE 3661**

MDLVLRCLLHLAVIGALLAVGATKVPNRQDWLGVSRLRTKAWNRLYPEWTEAQRLLDCWRGGQVSLKVSNDGP  
TLIGANASFSIALNFFPGSQKVLDPGQVIWVNNTIINGSQVWGGQPVYPQETDDACIFPDGGGPCPSGSWSQKRSFV  
YVWKTWQYWQVLGGPVSGLSIGTGRAMLGTHMEVTYHRRGSRSYVPLAHSSSAFTIIDQVPFSVSVSQLRAL  
DGGNKHFLRNQPLTFALQLHDP SGYLA EADLSYTWDFGDSSGTLISRALVVTHTYLEPGPVTAQVVLQAAIPLTS  
CGSSPVP GTTDGHRPTAEAPNTTAGQVPTTEVVGTTPGQAPTAEP SGTT SVQVPTTEVISTAPVQMPTAESTGMT  
PEKVPVSEVMGTTLAEMSTPEATGMTPAEVSIVVLSGTAAQVTTTEWVETTARELPIPEPEGPDASSIMSTESI  
TGS LGP LLDGTATLRLVKRQVPLDCVLYRYGSFSVTLDIVQGIESAEILQAVPSGEGDAFELTVSCQGGLPKEAC  
MEISSPGCQPPAQRLLCQPVLPSPACQLVLHQILKGGSGTYCLNVSLADTNSLAVVSTQLIMPGQEAGLGQVPLIV  
GILLVLMVAVLASLIYRRRLMKQDFSVPQLPHSSSHWLRRLPRIFCSCPIGENSPLLSGQQV



3972/6881  
**FIGURE 3662**

GGCAGCAGAGAAGAAAGTGGTGAAAATTACATCTGAAATACCACAGACTGAGAGAATGCAGAAGAGGGCTGAACG  
ATTCAATGTACCTGTGAGCTTGGAGAGTAAGAAAGCTGCTCGGGCAGCTAGGTTTGGGATTTCTTCAGTTCCAAC  
AAAAGGTCTGTCTCATCTGATAACAAACCTATGGTTAACTTGGATAAGCTGAAGGAAAGAGCTCAAAGATTGGTTT  
GAATGTCTCTTCAATCTCCAGAAAGTCTGAAGATGATGAGAAACTGAAAAAGAGGAAGGAGCGATTGGGATTGT  
CACAAGTTCAGCTGGAAGTGAACACAGAGGATACAGAGGCAAAGAAGAGGAAAAGAGCAGAGCGCTTGGGAT  
TGCCCTGATGAAAAGTTCCTGATACITTTCTGTTCTCCAGTGTTTTCCATTTCTCTCCTTCTTGGTCACATATA  
TGCCCTAAATGCACAGTCATGTGCCTACGTCCTGCCTCGCAATGAGGGAGCATGTACCCAGGTACATCCATGAAC  
TGCGGCAGCAGTTTGACTTATTGCTGTTTCAGCTTTAAGGTTGTTGTGTTTTTGTGTTTTGATTATGTTGCTTGTT  
AATAAAAAAATAGAAAAG

3973/6881  
**FIGURE 3663**

GGCACGAGGGGCCGGGGGGCGCAGCTAGAGAGCCCCGGAGCCGGCGGGGAGAGGAACGCGCAGCCAGCCTTGGG  
AAGCCCAGGCCCCGGCAGCCATGGCGGTGGAAGGAGGAATGAAATGTGTGAAGTTCTTGCTCTACGTCCTCCTGCT  
GGCCTTTTGCGCCTGTGCAGTGGGACTGATTGCCGTGGGTGTCGGGGCACAGCTTGTCTGAGTCAGACCATAAT  
CCAGGGGGCTACCCCTGGCTCTCTGTTGCCAGTGGTCATCATCGCAGTGGGTGCTTCCTCTTCCCTGGTGGCTTT  
TGTGGGCTGCTGCGGGGCTGCAAGGAGAACTATTGTCTTATGATCACGTTTGCCATCTTTCTGTCTCTTATCAT  
GTTGGTGGAGGTGGCCGAGCCATTGCTGGCTATGTGTTTAGAGATAAGGTGATGTCAGAGTTTAATAACAATT  
CCGGCAGCAGATGGAGAATTACCCGAAAAACAACCACACTGCTTCGATCCTGGACAGGATGCAGGCAGATTTTAA  
GTGCTGTGGGGCTGCTAACTACACAGATTGGGAGAAAATCCCTTCCATGTCGAAGAACCGAGTCCCGACTCCTG  
CTGCATTAATGTTACTGTGGGCTGTGGGATTAATTTCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAA  
GATTGGGGCTGGCTGAGGAAAAATGTGCTGGTGGTAGCTGCAGCAGCCCTTGGAATTGCTTTTGTGAGGTTTT  
GGGAATTGCTTTGCCTGCTGCCTCGTGAAGAGTATCAGAAGTGGCTACGAGGTGATGTAGGGGTCTGGTCTCCT  
CAGCCTCCTCATCTGGGGGAGTGAATAGTATCCTCCAGGTTTTTCAATTAAACGGATTATTTTTTCAGACCGAA  
AAGAAAAAAAAAAAAAAAAAAAAA

3974/6881

**FIGURE 3664**

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGVG AQLVLSQTIIQGATPGSLLPVVIIAVGVFLFLVAFVGCCGA  
CKENYCLMITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQQMENYPKNNHTASILDRMQADFKCCGAAN  
YTDWEKIPSMSKNRVPDSCCINVTVGCGINFNEKAIHKEGCV EKIGGWL RKNVLVAAAAALGIAFVEVLGIVFAC  
CLVKSIRSGYEV M

3975/6881  
**FIGURE 3665**

GGCACGAGGAGCTGTGAGGGTCAAGCACAGCTATCCATCAGATGATCTACTTTACGCCCTTCCTGAGTCCCAGACA  
ATAGAAGACAGGTGGCTGTACCCCTTGGCCAAGGGTAGGTGTGGCAGTGGTGTCTGCTGTCACTGTGCCCTCATTG  
GCCCCAGCAATCAGACTCAACAGACGGAGCAACTGCCATCCGAGGCTCCTGAACCAGGGCCATTACACAGGAGC  
ATGCGGCTCCCTGATGTCCAGCTCTGGCTGGTGTCTGTGTGGGCACTGGTGCGAGCACAGGGGACAGGGTCTGTG  
TGTCCCTCTGTGGGGGCTCCAAACTGGCACCCCAAGCAGAACGAGCTCTGGTGTGGAGCTAGCCAAGCAGCAA  
ATCCTGGATGGGTTGCACCTGACCAGTTCGTCCCAAGATAACTCATCTCCACCCAGGCAGCGCTGACCAGAGCC  
CTCCGGAGACTACAGCCAGGGAGTGTGGCTCCAGGGAATGGGGAGGAGGTATCAGCTTTGCTACTGTACAGAC  
TCCACTTCAGCCTACAGCTCCCTGCTCACTTTTACCTGTCCACTCCTCGGTCCCACCACCTGTACCATGCCCGC  
CTGTGGCTGCACGTGCTCCCCACCCTTCCTGGCACTCTTTGCTTGAGGATCTTCCGATGGGGACCAAGGAGGAGG  
CGCCAAGGGTCCCGCACTCTCCTGGCTGAGCACCACATCACCACTGGGCTGGCATACCTTAACCTGTGCCCTCT  
AGTGGCTTGAGGGGTGAGAAGTCTGGTGTCTGAAACTGCAACTAGACTGCAGACCCCTAGAAGGCAACAGCACA  
GTTACTGGACAACCGAGGCGGCTCTTGGACACAGCAGGACACCAGCAGCCCTTCCTAGAGCTTAAGATCCGAGCC  
AATGAGCCTGGAGCAGGCCGGGCCAGGAGGAGGACCCCACTGTGAGCCTGCGACCCCTTATGTTGCAGGCGA  
GACCATTACGTAGACTTCCAGGAAGTGGGATGGCGGGACTGGATACTGCAGCCCGAGGGGTACCAGCTGAATTAC  
TGCAGTGGGCACTGCCCTCCCCACCTGGCTGGCAGCCAGGCATTGCTGCCTCTTTCCATTCTGCCGTCTTCAGC  
CTCCTCAAAGCCAACAATCCTTGGCCTGCCAGTACCTCCTGTTGTGTCCCTACTGCCGAAGGCCCTCTCTCTC  
CTCTACCTGGATCATAATGGCAATGTGGTCAAGACGGATGTGCCAGATATGGTGGTGGAGGCCTGTGGCTGCAGC  
TAGCAAGAGGACCTGGGGCTTTGGAGTGAAGAGACCAAGATGAAGTTTCCAGGCACAGGGCATCTGTGACTGGA  
GGCATCAGATTCTGATCCACACCCCAACCAACAACCACTGGCAATATGACTCACTTGACCCCTATGGGACCC  
AAATGGGCACCTTTCTGTCTGAGACTCTGGCTTATTCCAGGTTGGCTGATGTGTTGGGAGATGGGTAAAGCGTTT  
CTTCTAAAGGGGTCTACCCAGAAAGCATGATTTCTGCCCTAAGTCCTGTGAGAAGATGTCAGGGACTAGGGAGG  
GAGGGAGGGAAGGCAGAGAAAAATTACTTAGCCTCTCCCAAGATGAGAAAGTCCTCAAGTGAGGGGAGGAGGAAG  
CAGATAGATGGTCCAGCAGGCTTGAAGCAGGGTAAGCAGGCTGGCCAGGGTAAGGGCTGTTGAGGTACCTTAAG  
GGAAGGTCAAGAGGGAGATGGGCAAGGCGCTGAGGGAGGATGCTTAGGGGACCCCAAGAAACAGGAGTCAGGAAA  
ATGAGGCACTAAGCCTAAGAAGTCCCTGGTTTTTCCAGGGGACAGGACCCACTGGGAGACAAGCATTATACT  
TTCTTTCTTTCTTTTTTATTTTTTTGAGATCGAGTCTCGCTCTGTACCAGGCTGGAGTGCAGTGACACGATCTTG  
GCTCACTGCAACCTCCGTCTCCTGGGTTCAAGTGATTCTTCTGCCCTCAGCCTCCCGAGCAGCTGGGATTACAGGC  
GCCCATAATTTTGTATTCTTAGTAGAAACGAGGTTTCAACATGTTGGCCAGGATGGTCTCAATCTCTTGACCT  
CTTGATCCACCCGACTTGGCCTCCCGAAGTGATGAGATTATAGGCGTGAGCCACCGCGCCTGGCTTATACTTTCT  
TAATAAAAAGGAGAAAGAAAATCAACAAATGTGAGTCATAAAGAAGGGTAGGGTGATGGTCCAGAGCAACAGTT  
CTTCAAGTGTAATCTGTAGGCTTCTGGGAGTCCCTTTTCAGGGGTGTCCACAAAGTCAAAGCTATTTTCATAAT  
AATACTAACATGTTATTTGCCCTTTGAATTCTCATTATCTTAAATTTGATTGTGGAGTTTTCCAGAGGCCGTG  
GACATGTGATTACATCATCTTTCTGACATCATTGTTAAAAA

3976/6881

**FIGURE 3666**

MRLPDVQLWLVLWLVRAQGTGSVCPSCGGSKLAPQAERALVLELAKQQILDGLHLTSRPRI THPPPQAALTRA  
LRRLOPGSVAPGN GEEVISFATVTDST SAYSSLLTFHLSTPRSHHLYHARLWLHVLP TLPGTLCLRIFRWGP RRR  
RQGSRTLLAEHHITNLGWHTLTLPSSGLRGEKSGVLKLQDCRPLEGNSTVTGQPRRLD TAGHQPFLELKIRA  
NEPGAGRARRRTPTCEPATPLCCRRDHYVDFQELGWRDWILQPEGYQLNYCSGQC PPHLAGSPGIAASFHSAVFS  
LLKANNPWPASTSCCVPTARRPLSLLYLDHNGNVVKTDV PDMVVEACGCS

3977/6881  
**FIGURE 3667**

CCCAGACTCCAGCCCTGGACCGCGCATCCCCAGCCCAGCGCCCAGACAGAGTGTCCCCACACCCTCCTCTGAGAC  
GCCATGTTCAACTCGATGACCCCAACCAATCAGTAGCTATGGCGAGCCCTGCTGTCTCCGGCCCCCTCCCCAGT  
CAGGGGGCCCCCAGTGTGGGGACAGAAGGA<sup>Δ</sup>TGTCTGGCCCCCCTTCTGCCACCAAGCTAACCTCATGTCCGGC  
CCCCACAGTTATGGGCCAGCCAGAGAGACCAACAGCTGCACCGAGGGGCCACTCTTTTCTTCTCCCCGGAGTGCA  
GTCAAGTTGACCAAGAAGCGGGGCACTGTCCATCTCACCTCTGTTCGGATGCCAGCCTGGACCTGCAGACGGTTATC  
CGCACCTCACCCAGCTCCCTCGTAGCTTTCATCAACTCGCGATGCACATCTCCAGGAGGCTCCTACGGTCATCTC  
TCCATTGGCACCATGAGCCCATCTCTGGGATTCCCAGCCAGATGAATCACC<sup>Δ</sup>AAAGGGCCCCTCGCCTTCCTTT  
GGGGTCCAGCCTTGTGGTCCCCATGACTCTGCCCGGGGTGGGATGATCCCACATCCTCAGTCCCCGGGGACCCCTC  
CCAACCTTGCCAGCTGAAGTCTGAGCTGGACATGCTGGTTGGCAAGTGCCGGGAGGAACCCCTTGGAAAGGTGATATG  
TCCAGCCCCAACTCCACAGGCATACAGGATCCCTGTGGGGATGCTGGATGGGCGGGAGGACCTCGAGAGAGAG  
GAGAAGCGTGAGCCTGAATCTGTGTATGAAACTGACTGCCGTTGGGATGGCTGCAGCCAGGAATTTGACTCCCAA  
GAGCAGCTGGTGCACCACATCAACAGCGAGCACATCCACGGGGAGCGGAAGGAGTTCTGTGTCCACTGGGGGGGC  
TGCTCCAGGGAGCTGAGGCCCTTCAAAGCCCAGTACATGCTGGTGGTTCACATGCGCAGACACACTGGCGAGAAG  
CCACACAAGTGCACGTTTGAAGGGTGCCGGAAGTCATACTCACGCCTCGAAAACCTGAAGACGCACCTGCGGTCA  
CACACGGGTGAGAAGCCATACATGTGTGAGCACGAGGGCTGCAGTAAAGCCTTCAGCAATGCCAGTGACCGAGCC  
AAGCACCAGAATCGGACCCATTCCAATGAGAAGCCGTATGTATGTAAGCTCCCTGGCTGCACCAAACGCTATACA  
GATCCTAGCTCGCTCGGAAAACATGTCAAGACAGTGCATGGTCTGACGCCCATGTGACCAAACGGCACCCTGGG  
GATGGCCCCCTGCCTCGGGCACCATCCATTCTACAGTGGAGCCCCAAGAGGGAGCGGGAAGGAGGTCCCATCAGG  
GAGGAAAGCAGACTGACTGTGCCAGAGGGTGCCATGAAGCCACAGCCAAGCCCTGGGGCCAGTCATCCTGCAGC  
AGTGACCACTCCCCGGCAGGGAGTGCAGCCAATACAGACAGTGGTGTGGAAATGACTGGCAATGCAGGGGGCAGC  
ACTGAAGACCTCTCCAGCTTGACGAGGGACCTTGCAATTGCTGGCACTGGTCTGTCCACTCTTCGCCGCCTTGAG  
AACCTCAGGCTGGACCAGCTACATCAACTCCGGCCAATAGGGACCCGGGGTCTCAAACCTGCCAGCTTGTCCCAC  
ACCGGTACCCTGTGTCCCGCCGCGTGGGCCCCCCAGTCTCTTGAACGCCGAGCAGCAGCTCCAGCAGCATC  
AGCTCTGCCTATACTGTGACCCGCCGCTCCTCCCTGGCCTCTCCTTTCCCCCTGGCTCCCCACCAGAGAATGGA  
GCATCCTCCCTGCCTGGCCTTATGCCTGCCAGCACTACCTGCTTCGGGCAAGATATGCTTCAGCCAGAGGGGGT  
GGTACTTCGCCCACTGCAGCATCCAGCCTGGATCGGATAGGTGGTCTTCCCATGCCTCCTTGAGAAAGCCGAGCC  
GAGTATCCAGGATACAACCCCAATGCAGGGGTCAACCGAGGGGCCAGTGACCCAGCCAGGCTGCTGACCGTCTC  
GCTCCAGCTAGAGTCCAGAGGTTCAAGAGCCTGGGCTGTGTCCATACCCCAACCACTGTGGCAGGGGGAGGACAG  
AACTTTGATCCTTACCTCCCAACCTCTGTCTACTCACACAGCCCCCAGCATCACTGAGAATGCTGCCATGGAT  
GCTAGAGGGCTACAGGAAGAGCCAGAAGTTGGGACCTCCATGGTGGGCAGTGGTCTGAACCCCTATATGGACTTC  
CCACCTACTGATACTCTGGGATATGGGGACCTGAAGGGGCAGCAGCTGAGCCTTATGGAGCGAGGGGTCCAGSC  
TCTCTGCCTCTTGGGCTGGTCCACCCACCAACTATGGCCCCAACCCCTGTCCCCAGCAGGCTCATATCCTGAC  
CCCACCCAAGAAACATGGGGTGAGTTCCCTTCCCACTCTGGGCTGTACCCAGGCCCAAGGCTCTAGGTGGAACC  
TACAGCCAGTGTCTCGACTTGAACATTATGGACAAGTGCAAGTCAAGCCAGAACAGGGGTGCCAGTGGGGTCT  
GACTCCACAGGACTGGCACCTTGCTCAATGCCCACCCAGTGAGGGGGCCCCACATCCACAGCCTCTCTTTTCC  
CATTACCCCCAGCCCTCTCCTCCCCAATATCTCCAGTCAGGCCCCCTATACCCAGCCACCCCTGATTATCTTCT  
TCAGAACCCAGGCCTTGCTGGACTTTGATTCCCCACCCATTCCACAGGGCAGCTCAAGGCTCAGCTTGTGTGT  
AATTATGTTCAATCTCAACAGGAGCTACTGTGGGAGGGTGGGGGCAGGGAAGATGCCCCCGCCAGGAACCTTCC  
TACCAGAGTCCCAAGTTTCTGGGGGGTTCAGGTTAGCCCAAGCCGTGCTAAAGCTCAGTGAACACATATGGA  
CCTGGCTTTGGACCAACTTGCCCAATCACAAGTCAGGTTCTATCCCACCCCTTACCATGCCATGAAAATTTT  
GTAGTGGGGGCAAAATAGGGCTTCACATAGGGCAGCAGCACCACTCGACTTCTGCCCCATTGCCCCACTTGCTAT  
GGGCCTCTCAAAGTGGGAGGCACAAACCCAGCTGTGGTTCATCCTGAGGTGGGCAGGCTAGGAGGGGGTCTGCC  
TTGTACCCTCTCCGAAGGACAGGTATGTAACCCCTGGACTCTCTTGATCTTGACAACACTCAGCTGGACATT  
GTGGCTATTCTGGATGAGCCCCAGGGGCTGAGTCTCTCTCTTCCATGATCAGCGGGCAGCTCTGGACATACC  
CCACCTCCCTCTGGGCCCCCAACATGGCTGTGGGCAACATGAGTGTCTTACTGAGATCCCTACCTGGGGAAACA  
GAATTCCTCAACTCTAGTGCTTAAGAGTAGGGAATCTCATCCATCACAGATCGCATTTCTAAAGGGTTTCTAT  
CCTTCCAGAAAAATTGGGGGAGCTGCAGTCCCTGCAACAAGATGCCCCAGGGATGGGAGGTATGGGCTGGGGCT  
ATGTATAGTCTGTATACGTTTTGAGGAGAAATTTGATAATGACACTGTTTCTGATAATAAAGGAAGTGCATCAG

3978/6881  
**FIGURE 3667A**

3979/6881  
**FIGURE 3668**

MFNSMTPPPISSYGEPCLRLPLPSQGAPSVGTEGLSGPPFCHQANLMSGPHSYGPARETNSCTEGPLFSSPRSAV  
KLTKKRALSI SPLSDASLDLQTVIRTSPSSLVAFINSRCTSPGGSYGHLSIGTMSPSLGFFPAQMNHQKGPSPSFG  
VQPCGPHDSARGGMIPHPQSRGPFPTCQLKSELDMLVGKCREEPLEGDMSSPNSTGIQDPLLGLMDGREDLEREE  
KREPESVYETDCRWDGCSQEFDSQEQLVHHINSEHIHGERKEFVCHWGGCSRELRFKAQYMLVVMRRHTGEKP  
HKCTFEGCRKSYSRLNLKTHLRSHTEKPYMCEHEGCSKAFSNASDRAKHQNRTHSNEKPYVCKLPGCTKRYTD  
PSSLRKHVKTVHGPDHVTKRHRGDGPLPRAPSISTVEPKREREKGP IREESRLTVPEGAMKQPSPGAQSSCSS  
DHSPAGSAANTDSGVEMTGNAGGSTEDLSSLDGEGPCIAGTGLSTLRLENLRDLQLHQLRP IGTGLKLP SLSHT  
GTTVSRRVGPPVSLERRSSSSSSISSAYTVSRRSSLASPFPPGSPENGASSLPGLMPAQHYLLRARYASARGGG  
TSPTAASSLDRIGGLPMPWPWSRAEYPGYNPNAGVTRRASDPAQAADRPAPARVQRFKSLGCVHTPPTVAGGGQN  
FDPYLP TSVYSPQPPSITENAAMDARGLQEEPEVGTS MVGSGLN PYMDFPPTDTLGYGGPEGAAEPYGARGPGS  
LPLGPGPPTNYGPNPCPQQASYPDPTQETWGEFPSHSGLYPGPKALGGTYSQCPRLEHYGQVQVKPEQGCPVGS  
STGLAPCLNAHPSEGPPHPQPLFSHYPPQSPPPQYLQSGPYTQPPPDYLPSEPRPCLDFDSTHSTGQLKAQLVCN  
YVQSQQELLWEGGGREDAPAEPSYQSPKFLGGSQVSPSRAKAPVNTYGPFGPNLPNHKSGSYPTPSPCHENFV  
VGANRASHRAAAPRLLPPLPTCYGPLKVGGTNPSCGHPEVGRLGGGPALYPPEGQVCNPLDSL DLDNTQLDFV  
AILDEPQGLSPPPSHDQRGSSGHTPPPSGPPNMAVGNMSVLLRSLPGETEFLNSSA



3980/6881  
**FIGURE 3669**

ATCAGCGAGGGATTACGGCGAAATGAGACTGTTTCGTGAGTGATGGCGTCCCGGGTTGCTTGCCGGTGCTGGCCG  
CCGCCGGGAGAGCCCCGGGGCAGAGCAGAGGTGCTCATCAGCACTGTAGGCCCGGAAGATTGTGTGGTCCCGTTCC  
TGACCCGGCCTAAGGTCCCTGTCTTGAGCTGGATAGCGGCAACTACCTCTTCTCCACTAGTGCAATCTGCCGAT  
ATTTTTTTTGTATCTGGCTGGGAGCAAGATGACCTCACTAACCAAGTGGCTGGAATGGGAAGCGACAGAGCTGC  
AGCCAGCTTTGTCTGCTGCCCTGTACTATTTAGTGGTCCAAGGCAAGAAGGGGGAAGATGTTCTTGGTTCAGTGC  
GGAGAGCCCTGACTCACATTGACCACAGCTTGAGTCGTGAGAACTGTCCTTTCTGGCTGGGGAGACAGAATCTC  
TAGCCGACATTGTTTTGTGGGGAGCCCTATACCCATTACTGCAAGATCCCGCCTACCTCCCTGAGGAGCTGAGTG  
CCCTGCACAGCTGGTTCCAGACACTGAGTACCCAGGAACCATGTCAGCGAGCTGCAGAGACTGTACTGAAACAGC  
AAGGTGTCCTGGCTCTCCGGCCTTACCTCCAAAAGCAGCCCCAGCCCGCTGAGGGAAGGGCTGTCACCA  
ATGAGCCTGAGGAGGAGGAGCTGGCTACCCTATCTGAGGAGGAGATTGCTATGGCTGTACTGCTTGGGAGAAGG  
GCCTAGAAAGTTTGGCCCCGCTGCGGCCCCAGCAGAATCCAGTGTTGCCTGTGGCTGGAGAAAGGAATGTGCTCA  
TCACCAAGTCCCTCCCTTACGTCAACAATGTCCCCACCTTGGGAACATCATTGGTTGTGTGCTCAGTGCCGATG  
TCTTTGCCAGTACTCTCGCCTCCGCCAGTGGAAACACCTCTATCTGTGTGGGACAGATGAGTATGGTACAGCAA  
CAGAGACCAAGGCTCTGGAGGAGGGACTAACCCCCAGGAGATCTGCGACAAGTACCACATCATCCATGCTGACA  
TCTACCGCTGGTTTAACATTTCTGTTGATATTTTTGGTTCGACCACTCCACAGCAGACCAAAATCACCAGG  
ACATTTTCCAGCAGTTGCTGAAACGAGGTTTTGTGCTGCAAGATACTGTGGAGCAACTGCGATGTGAGCACTGTG  
CTCGCTTCTGGCTGACCGCTTCGTGGAGGGCGTGTGTCCTTCTGTGGCTATGAGGAGGCTCGGGGTGACCACT  
GTGACAAGTGTGGCAAGCTCATCAATGCTGTGAGCTTAAGAAGCCTCAGTGTAAGTCTGCCGATCATGCCCTG  
TGGTGCAGTCGAGCCAGCACCTGTTTCTGGACCTGCCTAAGCTGGAGAAGCGACTGGAGGAGTGGTTGGGGAGGA  
CATTGCCTGGCAGTGACTGGACACCCAATGCCAGTTTATCACCCGTTCTTGGCTTCGGGATGGCCTCAAGCCAC  
GCTGCATAACCCGAGACCTCAAATGGGGAACCCCTGTACCCTTAGAAGGTTTTGAAGACAAGGTATTCTATGTCT  
GGTTTGATGCCACTATTGGCTATCTGTCCATCACAGCCAACCTACACAGACCAGTGGGAGAGATGGTGGAAGAACC  
CAGAGCAAGTGGACCTGTATCAGTTTATGGCCAAAGACAATGTTTCTTCCATAGCTTAGTCTTCTCTTGCTCAG  
CCCTAGGAGCTGAGGATAACTATACCTTGGTCAGCCACCTCATTGCTACAGAGTACCTGAACTATGAGGATGGGA  
AATTCTCTAAGAGCCGCGGTGTGGGAGTGTGTTGGGGACATGGCCCAGGACACGGGGATCCCTGCTGACATCTGGC  
GCTTCTATCTGCTGTACATTGGCCCTGAGGGCCAGGACAGTGCTTTCTCCTGGACGGACCTGCTGCTGAAGAATA  
ATTCTGAGCTGCTTAACAACCTGGGCAACTTCATCAACAGAGCTGGGATGTTTGTGTCTAAGTCTTTGGGGGCT  
ATGTGCCTGAGATGGTGCTCACCCCTGATGATCAGCGCCTGCTGGCCCATGTACCCCTGGAGCTCCAGCACTATC  
ACCAGCTACTTGAGAAGGTTCCGATCCGGGATGCCTTGGCAGTATCCTCACCATATCTCGACATGGCAACCAAT  
ATATTAGGTGAATGAGCCCTGGAAGCGGATTAAAGGCAGTGAGGCTGACAGGCAACGGGCAGGAACAGTGACTG  
GCTTGGCAGTGAATATAGCTGCCTTGCTCTGTCTGTATGCTTCAGCCTTACATGCCCACGGTTAGTGCCACAATCC  
AGGCCCAGCTGCAGCTCCACCTCCAGCCTGCAGTATCCTGCTGACAACTTCTGTGTACCTTACCAGCAGGAC  
ACCAGATTGGCACAGTCAGTCCCTTGTTCAAAAATTGGAAGTACCAGATTGAAAGTTTAAGGCAGCGCTTTG  
GAGGGGGCCAGGCAAAACGTCCTCCGAAGCCAGCAGTTGTAGAGACTGTTACAACAGCCAAGCCACAGCAGATAC  
AAGCGCTGATGGATGAAGTGACAAAACAAGGAAACATTGTCCGAGAACTGAAAGCACAAAGGCAGACAAGAAGC  
AGGTTGCTGCGGAGGTGGCGAACTCTTGATCTAAAGAAACAGTTGGCTGTAGCTGAGGGGAAACCCCTGAAG  
CCCCAAAGGCAAGAAGAAAAAGTAAAGACCTTGGCTCATAGAAAGTCACTTTAATAGATAGGGACAGTAATAA  
ATAAATGTACAATCTCTATA

3981/6881

**FIGURE 3670**

MRLFVSDGVPGLPVLAAAGRARGRAEVLISTVGPEDCVVPFLTRPKVPVLQLDSGNLYLFSTSAICRYFFLLSGW  
EQDDLTNQWLEWEATELQPALSAALYYLVVQGGKGEDVLGSVRRALTHIDHSLSRQNCPLAGETESLADIVLWG  
ALYPLLQDPAYLPEELSALHSWFQTLSTQEPQRAAETVLKQQGVLAALRPYLQKQPQPSPAEGRAVTNEPEEEEL  
ATLSEEEIAMAVTAWEGLESPLPRLPQQNPVLPVAGERNVLITSALPYVNNVPHLGNIIGCVLSADVFARYSRL  
RQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHADIYRWFNISFDIFGRTTTTQQTKITQDIFQQLLK  
RGFVLQDTVEQLRCEHCARFLADRFVEGVCPFCGYEEARGDQCDKCGKLINAVELKKPQCKVCRSCPVVQSSQHL  
FLDLPKLEKRLEEWLGRITLPGSDWTPNAQFITRSWLRDGLKPRCITRDLKWGTFVPLEGFEDKVIFYVWFDATIGY  
LSITANYTDQWERWWKNPEQVDLYQFMAKDNVPFHSLVFPCSALGAEDNYTLVSHLIATEYLNIEDGKFSKSRGV  
GVFGDMAQDTGIPADIWRFYLLYIRPEGQDSAFSWTDLLLKNNSSELLNNGNFINRAGMFVSKFFGGYVPEMVL  
PDDQRLLAHVTLLELQHYHQLLEKVRIKDALRSILTISRHGNQYIQVNEPWKRIKSEADRQRAGTVTGLAVNIAA  
LLSVMLQPYMPTVSATIQALQLLPPACSIILLTNFLCTLPAGHQIGTVSPLFQKLENDQIESLRQRFGGGQAQTS  
PKPAVVETVTTAKPQQIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPEAPKGGKKK

3982/6881

**FIGURE 3671**

AGAGACTTAAGTCTAAGGCACTGAGCGTATCATGTAAAGATGAGCGGGTGGCAGCGACAGAGCCAAAATCAGAG  
CTGGAACCTGAGGAGAGAGTGTTCAGAAGGAAGTGTATCTTCATACATCACACACCTGAAAGCAGGCATCAGA  
CCAGCTTGCCAACTGTGGCATAGACTGTTTGCTACATGGAGCTTGTTCCAGCCACTCCCCATTATCCTGCAGAT  
GTGCTTTTCCAGACTGATCCAACCTGCAGAGATGGCAGCTGAGTCATTGCCTTTCTCCTTCGGGACACTGTCCAGC  
TGGGAGCTGGAAGCCTGGTATGAGGACCTGCAAGAGGTCTGTCTTCAGATGAAAATGGGGGTACCTATGTTTCA  
CCTCCTGGAAATGAAGAGGAAGAATCAAAAATCTTCACCACTCTTGACCTGCTTCTCTGGCTTGGCTGACTGAG  
GAGGAGCCAGAACCAGCAGAGGTCACAAGCACCTCCCAGAGCCCTCACTCTCCAGATTCCAGTCAGAGCTCCCTG  
GCTCAGGAGGAAGAGGAGGAAGACCAAGGGAGAACCAGGAAACGGAAACAGAGTGGTCATTCCCCAGCCCGGGCT  
GGAAAGCAGCGCATGAAGGAGAAAGAACAGGAGAATGAAAGGAAAGTGGCACAGCTAGCTGAAGAGAATGAACGG  
CTCAAGCAGGAAATCGAGCGCCTGACCAGGGAAGTAGAGGCGACTCGCCGAGCTCTGATTGACCGAATGGTGAAT  
CTGCACCAAGCATGAACAATTGGGAGCATCAGTCCCCCACTTGGGCCACACTACCCACCTTTCCCAGAAGTGGCT  
ACTGACTACCCTCTCACTAGTGCCAATGATGTGACCTCAATCCCACATACGCAGGGGGAAGGCTTGGAGTAGAC  
AAAAGGAAAGGTCTCAGCTTGTATATAGAGATTGTACATTTATTTATTACTGTCCCTATCTATTAAAGTGACTTT  
CTATGA

3983/6881  
**FIGURE 3672**

ATGCGCGGGAGGCCGCTCGGTGATCCGCGCGCGCGGCAGCGCGCTTCCTGCTAGGACCGGCCGGGGCCGTACCG  
GAGGCTCGGGCTCCACCGACCCCTCCTCCACCCCCCTCCCACTCACCTCTGGGCCGCGACTGCGCAGGGCGGGGC  
CGGCCGAACCATGGGCCGCGGTGTGGGCTAAGCTGGTGGCCCCGGCTTTAGACTGGACCCACAAATGTTTGCAGA  
GATGTTACAGGCACGCGGGAGCTGATTACACACAATGAATGGGGCAATGAGAGCAGTGGAGCAGACAGAGCTGGG  
GGCCCTGTGGCCACATCTGTCCCCATCGGCTGGCAGCGCTGTGTGCGAGAGGGTGTGTGCTCTACATCAGTCCA  
AGTGGCACAGAGCTGTCTTCTTGGAGCAAACCCGGAGCTACCTCCTCAGCGATGGGACCTGCAAGTGCGGTCTG  
GAGTGTCCACTTAATGTCCCCAAGGTTTTCAACTTTGACCTTTGGCCCCGGTGACCCCGGGTGGGGCTGGGGTG  
GGGCCAGCATCAGAGGAGGACATGACCAAGCTGTGCAACCACCGCGGAAAGCTGTTGCTATGGCAACTCTGTAC  
CGCAGCATGGAGACCCTGTCTACACTCTTCTCCTGGAGAGGGAGCGAGCCCCAAATGTTCCACACTGTGTCC  
CCAGGGCCCCCTCTGCCCCGCCCTCCCTGTGAGTTCTCTACAACCTCCACTTAATGGGGGTCTTGCTCCCTT  
CCCCAGAACCACCTCAGTTTCCCAGGCCTTTCCCACTCTAGCAGGCCCTGGGGGGCTTTTCCCCCAAGGCTT  
GCTGACCCAGTCCCTTCTGGGGGCGAGTAGCAGCCCCGTTTCTCCCAAGGGGCAATGCCCCCTCTCCAGCCCCA  
CCTCTCCACCTGTATCAGCCTCAATGCTCCCTCATACAACCTGGGGAGCTGCCCTCAGATCCAGCCTGGTGCCC  
TCTGACCTGGGCTCTCTCCGGCCCCCTCATGCCTCCTCCTCACCACCTTCAGACCTCCTCTCTTCCACTGTAGT  
GATGCCTTAACACCCCCCTCCCCGTGCCCCCGAGCAATAATCTCCCCGCCACCCCTGGTCTGCCTCTCAGCCACCA  
GTGTCTTCAGCCACTATGCACCTGCCCCGTGTCTGGGGCCCCCTGGGAGGGGCCCCACGGTGGAGGGGCTGGG  
GCACCCCCCTTCTGTAGCAGCCTACTCTCTGCAGCGGCCAAGGCACAGCATCCCCACTACCCCTCCCAGC  
ACTTTACAGGGCCGAAGGCCCGTGCCAGGCACCTCAGCTTCCCACTCCTCATCACTTCGTCCCTCTCAGCGT  
CGTCCCCGAGACCCCTACTGTATTTGATTGTAGAAAGGGAGAGGCCCTCAAACCCCTAGACGGAGCCGTCT  
CGGGCCCCGTCTCTGTCCCCCAACCTTTTCTCTCCCGAGGCCATCCCAACCAATTCTCCCTTCTGTGCTGTCC  
CTGCTGGGACTCCCCACCCCTGGCCCTTCCCACTCTGATGGAAGCTTTAACCTTTTGGGGTCAGATGCACACCTT  
CCTCTCCCCCAACCTCTCTCAGGGAGCCCTCCCCAGCCAGGCACCCCATCCAGCCCTCCCTGCCTGGGACC  
ACAGTGGCAGCCTCAGCAGTGTGCCAGGTGCCCCGTGCCCCACCAGCTGCCTCCAAAGCCCCAGTAGTCCCCAGC  
CCTGTGCTTCAAAGCCCATCCGAAGGACTGGGGATGGGGGAGGCCCGGCCCTGCCCTCTGCCTCCCTGGCTGGT  
GGAGAGGCTTTCCCTTTCCCCAGCCCTGAGCAGGGCCTGGCACTGAGTGGAGCTGGCTTCCCTGGGATGCTTGGG  
GCCTTGCTCTCCCTCTGAGTCTGGGGCAGCCTCCACCTTCTCCATTGCTCAACCACAGTTTATTTGGTGTGCTG  
ACTGGGGGAGGAGACAACCTCCCCCTGAGCCCCCTGCTACCCCCACCAGGAGGACCTGGTCTCCCTAGCCCCA  
GGAGAGCCTGAAGGGCCTTCGCTTTTGGTGGCTTCTTGCTTCTCCACCACCTCAGACCTTCTTCCACCTCCT  
TGAGCACCTCCCAGCAACCTCCTTGCTCTTCTGCCCCGTGTGGCTCTGGGCCCCACAGCTGGGGATGGGGAG  
GGATCTGCAGAGGGAGCCGGGGGTCCAAGTGGGGAGCCATTTTCAGGCTTGGGAGACCTGTCCCCCTACTTTTC  
CCCCACTTTCAGCCCCCCTACCTCATAGCTTTAAATTCTGCGCTGCTGGCTGCCACCTTGGATCCCCCTCG  
GGGACACCCCCCAGCCCTGTGTCTGAGTGCCCCCAACCTGGACCACCTACCTCCAGTGTACCACGGCAACT  
ACTGACCCGGGGGCTCCTCTCTGGGCAAGGCCCTTCAAACCTCAGGGAGACCCCCCAACTCCTTAGCCCTCTG  
CTGGGTGCCAGCCTGCTGGGTGACCTGTCTTACTGACCAGCAGCCCTGGAGCCCTCCCCAGCCTGTTGCAGCCT  
CCTGGCCCTCTTCTCTTGCCAGTTGGGGCTGCAGCTCCTCCCTGGGGGGGAGCTCCTCCACCCCTCTCAGAG  
GCTTCTAGTCCCCTAGCCTGCCTGCTACAGAGTCTCCAGATCCCTCCAGAGCAGCCAGAAGCCCCCTGTCTACCC  
CCGAGAGCCCTGCCTCAGCCCTCGAACCAGAGCCTGCCAGGCTCCCTCAGTGCCTTAGCCCCACCCATGGT  
TCTCCGACCCCCCAGTCCCTGAGCTGCTCACTGGGAGGGGTCAGGGAACGGGGCCGGAGGGAGGAGGGGA  
CTTAGGGGCATTAATGGTGAGGCCAGGCCAGCCGGGGGCCGAAAGCTGGCAGCCGGCGGGAGGCTGGCCGACTG  
GCCCTCAAATGGGGACACGTGGTGGCTTCAATGGACAAATGGAAAGTCCCCAAGAAGAACCACATTGGCAG  
CATAATGGGGAGCTGGCTGAAGGGGTGCTGAGCCCAAGGATCCACCCCTCCCGGGCCCCATTCTGAGGACCTT  
AAGGTGCCCCCGGAGTAGTCAGAAAGTCTCGTGGCCGTAGGAGAAAATACAACCTACCCGGAACAGCAAT  
AGCTCCCGCCAGGACATTACCTTGGAAACCCAGCCCTACAGCCCGAGCAGCTGTCCCTCTGCCTCCCCGGCCCCGC  
CCTGGCCGTCTGCCAAAACAAGAGGAGGAACTGGCCCCATAGCAGCCATACCTGGAGCTGGATCTGACCTG  
ATTGGGAGAGCTGAGTGTGAGCCTTGGGAGCCCTGCCAGCCACCTGCACCTGCTGCCCTCCTTCCAGTGAA  
AGAGACGTGTGATGATGCGACTGAGGATTATGCAACGTGGTCCAACCGGAGCGGCCAGCATGACAGCTGTCCA  
GGGGCTGCCTCCTGCCCTTTCTTTTGTAAAGACAAGACCTTGGGAGTTTTAATCTGTTTTGTACTTGCCCTGT  
GGGGCTCCACTGCTTTTCTATGGGAGACACTCTTAATTTAACAGATGAGAATATTTGAAACTCTG

3984/6881

**FIGURE 3673**

MEALTFWQMHTFLLPQSPQGALPSPGTPSSPPCLGPPVAASAVCQVPLPHQLPPKPHVVPSPVLQSPSEGLGM  
GAGPACPLPPLAGGEAFFFPSPSEQGLALSGAGFPGMLGALPLPLSLGQPPPSPLLNHSLFGVLTGGGGQPPPEPL  
LPPPGGPGPPLAPGEPEGPSLLVASLLPPPPSDLLPPPSAPPSNLLASFLPLLALGPTAGDGEESAEGAGGPSGE  
PFSGLDLSPLLFPPLSAPPTLIALNSALLAATLDPPSGTTPQPCVLSAPQGPPTSSVTTATDPGASSLGKAP  
SNSGRPPQLLSPLLGASLLGDLSSLTSSPGALPSLLQPPGPELLSGQLGLQLLPGGGAPPPLSEASSPLACLLQSL  
QIPPEQPEAPCLPPESPASALEPEPARPPLSALAPPHGSEDPFVPELLTGRGSGKRGRRGGGGLRGINGEARPAR  
GRKPGSRREPGRRLALKWGTRGGFNGQMERSPRRTHHWQHNGELAEGGAEPKDP PPPGPHSEDLKVPPGVVRKSRR  
GRRRKYNPTRNSNSSRQDITLEPSPTARGAVPPTTRARPGRPAKNKRRKLTP

3985/6881  
**FIGURE 3674**

GAGACTTCCTGCTCATCTGCCGCTCCCTTTGCCGCCGCCTTAGCCCCGGGACCCGAACCCAGCCTCTCCCCTACCC  
GAACACCGGCCCCGGCTCCACCGAGGCCCGGGTCCCCCAGCCCGTCTCGCCGCCGCCATGGCGGACCCTAAATAC  
GCCGACCTTCCCCGGCATTGCCAGGAATGAGCCAGATGTTTATGAACTAGCGACCTACCTGAGGATGATCAAGCG  
GAGTTCGATGCGXXXXXXXXXXXXXXXXXGAGGAGCTGACAAGCACAAGTGTGGAACACATCATTGTCAATCCTAAT  
GCTGCCATATGACAAGTTCAAGGACAAGAGAGTGGGGACAAAGGGACTTGATTTCTCAGATCGTATTGGAAAAACC  
AAGAGGACAGGATATGAATCTGGAGAATATGAGATGCTTGGAGAGGGTCTGGGAGTGAAGGAGACACCCAGCAA  
AAGTACCAGCGCCTACTGTCATGAGGTCCAAGAGCTGACAACTGAAGTTGAAAAAATCAAGACGACAGTGAAGGAG  
TCAGCCACAGAGGAGAAGCTGACCCCTGTGTTGCTGGCTAAACAGCTGGCAGCCCTGAAGCAGCAGCTGGTTGCT  
TCCCACCTGGAGAAGCTGCTGGGACCAGATGCTGCAATCAACCTTACCGACCCCGATGGCGCCCTGGCTAAGCGC  
CTACTACTGCAGCTGGAAGCAACAAAGAACAGCAAAGGGGGATCAGGGGGAAAAACCACTGGGACCCCCCAGAT  
AGCAGCCTTGTCACTTATGAACTACATTCTCGGCCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTCGCAGAA  
CTTGAAAAGCGCCTGACAGAGCTGGAGACAGCTGTACGTTGTGATCAGGATGCTCAGAATCCCCTTTCTGCAGGT  
CTACAGGGAGCCTGTCTCATGGAGACTGTAGAGCTGTTGCAAGCAAAGGTGAGCGCCCTAGACCTTGCAGTTTTG  
GATCAAGTGGAGGCTCGGCTACAGAGTGTCTGGGAAAGGTGAACGAGATTGCCAAGCATAAAGCCTCTGTAGAA  
GATGCAGATACACAAAGCAAGGTGCACCAGCTATATGAACTATACAGCGCTGGAGCCCCATTGCCTCCACCCTC  
CCTGAGCTGGTGCAGAGACTTGTCAACATCAAGCAGCTGCACGAGCAAGCCATGCAGTTTGGTCAGCTCCTGACA  
CACTTGGATACCACCCAGCAGATGATTGCTAATTCCTTGAAGGACAATACCACCCTCTTGACCCAGGTGCAGACA  
ACCATGCGTGAAAACCTGGCCACAGTTGAGGGGAACCTTGCCAGCATTGATGAACGGATGAAGAAGCTGGGAAAG  
TGAGCACATTTGGGAGCTGGAGAACAGGGGTATCCCTACCCCTGTGAACTCTGTAAACAGCTTACATAGGGTTT  
CCCCTTTACTATAACTCTAGCATCCCCATCCCATTTGACACTGGGGGCAAGGGTTCTTCTTGCATGTGGGGTTTA  
TACCCCTCCCCTGATGAATACAGAGTGGTAGCTAGGGGTTGGTTATCATCAGAAGGTGGTCTCCCCTCAGGCCCTG  
GGGGATAAGGACGTGGGCCCAGCCACATGCCAACTCATGTCCAATACTGCTTTGCCTGGTGTGGGGAAGGATTGG  
GTCTTGTCCCCCAACACAGCTTCTGTGGCTGACTGTAATACTGTACAACCTGTTTCTGACCATTAAATGCTGTTGT  
ACTCTG

3986/6881

**FIGURE 3675**

MLGEG LGVKETPQQKYQRLLHEVQELTTEVEKIKTTVKESATEEKLTVPVLLAKQLAALKQQLVASHLEKLLGPDA  
AINLTDPDGALAKRLLLQLEATKNSKGGSGGKTTGTPPDSSLVTYELHSRPEQDKFSQAAKVAELEKRLTELETA  
VRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAVLDQVEARLQSVLGKVNEIAKHKASVEDADTQSKVHQL  
YETIQRWSP IASTLP ELVQRLVTIKQLHEQAMQFGQLLTHLDTTQQMIANS LKDN T TLLTQVQTTMRENLATVEG  
NFASIDERMKKLGK

3987/6881

**FIGURE 3676**

[illegible]



3988/6881

**FIGURE 3677**

MLEPALATGEELPELTLLTTLLEGPGDKTQPPEEETLSQAPESEEEEQKKALERSMYVLSELVETEKMYVDDLQQ  
IVEGYMATMAAQGVPESLRGRDRIVFGNIQQIYEWHRDYFLQELQRCLKDPDWLAQLFIKHERRLHMYVVCQNK  
PKSEHVVSFEGDSYFEELRQQLGHRQLQNDLLIKPVQRIMKYQLLLKDFLKYYNRAGMDTADLEQAVEVMCFVPK  
RCNDMMTLGRLRGFEGKLTAQGKLLGQDTFWVTEPEAGGLSSRGRERRVFLFEQIIIFSEALGGVVRGGTQPGY  
VYKNSIKVSCLGLEGNLQGDPCRFAITSRGPEGGIQRYVLQAADPAISQAWIKHVAQILESQRDFLNALQSPIEY  
QRRESQTNSLGRPRGPGVGSPGRIRLGDQAQGSTHTPINGSLSLSPKGEVARALLPLDKQALGDIPQAPHDS  
PPVSPTPKTPPCQARLAKLDEDEL

3989/6881  
**FIGURE 3678**

TTGCACTCTCCACACCCTTTTCTTTTCGTCCGCTCTTCGCTTATTTCTCCCGCGTCTCCTCTGCATAAGAAGG  
GGAACGAAAGATGCGCGCGGAAACGCTGCTGTCCAGTTTGTAGGACTGCTGCTTCTGGGACTCCTGTTACCCGC  
AAGTCTGACCGGCGGTGTGCGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC  
GTTGCCTGTCTATGGGAGGGCAGAGCCAATCTTCGGACGTGGTGATTGTCTCCTCTAAGTACAAACAGCGCTATGA  
GTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGGAAACACCTGCTTACCAAGGCCTGG  
GATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGCTGAAGACAAAGGACTGGTGGACATATGAATT  
CTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTGAGAGATCAAAGGTGAAGTCCTCTATCTCGGCTA  
CTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCCTCCAAGCAGCATCGTCTTAAACGCTACCACAG  
CCAGACCTATGGCAATGGGTCCAAGTGCAGCTTAATGGGAGGCCCGGGAGGCCGAGGTTTCGGTTCCTCTGTGA  
CGAGGGTGCAGGTATCTCTGGGGACTACATCGATCGCGTGAGCAGGCCCTTGCTCTCTTATGTGCTGACCAT  
TCGCACTCCTCGGCTCTGCCCCACCCTCTCTCCGGCCCCCACCAGTGCTGCACCACAGGCCATCCTCTGTCA  
CCCTTCCCTACAGCCTGAGGAGTACATGGCCTACGTTTCAAGGCAAGCCGACTCAAAGCAGTATGGAGATAAAAT  
CATAGAGGAGCTGCAAGATCTAGGCCCCCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCTAAAGATGGC  
AGGTGCGAGCCCCAGCAAGGATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGC  
CCCAGGAGGGGAGGAGGTGCCGGCTGAGGAGCAGGACCCAAGCCCTGAGGCAGCAGATTGAGCTTCTGGTGCTCC  
CAATGATTTTTCAGAACAACTGTCAGGTCAAAGTCATTGCAAGCCCTGCGGATTTGATTTCGATTTCATAGAGGAGCT  
GAAAGGTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCA  
GAGGGAACCAGAGAAGGAAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGATGAGGA  
TGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAAGTGAAGGGATCCTGCTTCCGTC  
AGACCGAGACCGGCTCCGTTTCGGAGGTGAAGGCTGGCATGGAGCGGGAAGTGGAGAATCATCCAGGAGACAGA  
GAAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTCAGAGCGGGATCGGGCAATGCTGGCTCTCACATCCACTCT  
CAACAACTCATCAAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGAAAAAGAGGGTTGT  
CCCCAAAAAGCCTCCCCCATCCCCAACCTACAGAGGAGGATCCTGAGCACAGAGTCCGGGTCCGGGTACCAA  
GCTCCGTCTCGGAGGCCCTAATCAGGATCTGACTGTCTCGAGATGAAACGGGAAAAACCCACAGCTGAAACAAAT  
CGAGGGGCTGGTGAAGGAGCTGCTGGAGAGGGAGGGACTCACAGCTGCAGGGAAAAATTGAGATCAAAATTGTCCG  
CCCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGACACGAGAAACCTCAAGGAGATCTT  
CTTCAATATCTTGGTGCCGGGAGCTGAAGAGGCCAGAAAGAACGCCAGCGGCAGAAAGAGCTGGAGAGCAATTA  
CCGCCGGGTGTGGGGCTCTCCAGGTGGGGAGGGCACAGGGGACCTGGACGAATTTGACTTCTGAGACCAACACTA  
CACTTGACCCCTTACGGAAATCCAGACTCTTCTGAGTGGCTTGCTTGCCTCCTCCCCACCTCCCCACCCTGGAACCCC  
TGAGGGCCAAACAGCAGAGTGAGCTGAGCTGTGGACCTCTCGGGCAACTCTGTGGGTGTGGGGGCCCTGGGTGA  
ATGCTGCTGCCCCCTGCTGGCAGCCACCTTGAGACCTCACGGGCTGTGATATTTGCTCTCCTGAACTCTCACTC  
AATCCTCTTCTCTCTCTGTGGCTTTTCTGTATTGTCCCTAATGATAGGATATTCCTGCTGCCTACCTGG  
AGATTCAGTAGGATCTTTTGAGTGAGGTGGGTAGAGAGAGCAAGGAGGGCAGGACACTTAGCAGGCACTGAGCA  
AGCAGGCCCCCACCCTGCCCTTAGTGATGTTTGGAGTCGTTTACCCTCTTCTATTGAATTGCCTTGGGATTTCT  
TCTCCCTTTCCCTGCCACCCTGTCCCTACAATTTGTGCTTCTGAGTTGAGGAGCCTTACCTCTGTTGCTGAG  
GAAATGGTAGAATGCTGCCTATCACCTCCAGCACAATCCAGCGAAAAAGGTGTGAAGCACCACCATGTTCTTG  
ACAATCAGGTTTCTAAATAAACAACCTGGACCATCA

3990/6881

**FIGURE 3679**

MAAETLLSSLLGLLLLGLLLLPASLTGGVGS LNLEELSEMRYGIEILPLPVMGGQSQSSDVVIVSSKYKQRYECRL  
PAGAIHFQREEREETPAYQGPGIPELLSPMRDAPCLLTKDWWTYEF CYGRHIQQYH MEDSEIKGEVLYLGYYS  
AFDWDEETAKASKQHRLKRYHSQTYNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRVDEPLSCSYVLTIRTP  
RLCPHPLLRPPPSAAPQAILCHPSLQPEEY MAYVQRQADSKQYGDKII EELQDLGPQVWSETKSGVAPQKMAGAS  
PTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEADSASGAPNDFQNNVQVKVIRSPADLIRFIEELKGG  
TKKGKPNIGQEQPVDDAAEVPQREPEKERGDPERQREMEEEDEDEDEDEDERQLLGEFEKELEGILLPSDRD  
RLRSEVKAGMERELENI IQETEKELDPDGLKKESERDRAMLALTSTLNKLIKRL EEKQSP ELVKKHKKRVPKK  
PPSPQPT EEDPEHRVRVRVTKLRLGGPNQDLTVLEMKREN PQLKQIEGLVKELLEREG LTAAGKIEIKIVRPWA  
EGTEEGARWLTD ETRNLKEIFFN ILVPGAEEAQKERQ RQKELESNYRRVWGSPGGEGTGDLDEFDF

3991/6881  
**FIGURE 3680**

GATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAACTGGAAGGGATCCTGCTCCGTCAGACCGAGACCTGCTG  
CCTACCTGGAGATTCACTAGGATCTTTTGAGTGGAGGTGGGTAGAGAGAGCAAGGAGGGCAGGACACTTAGCAGG  
CACTGAGCAAGCAGGCCCCACCTGCCCTTAGTGATGTTTGGAGTCGTTTTACCCCTCTTCTATTGAATTGCCTTG  
GGATTTCTTCTCCCTTTCCCTGCCACCCCTGTCCCCTACAATTTGTGCTTCTGAGTTGAGGAGCCTTCACCTCT  
GTTGCTGAGGAAATGGTAGAATGCTGCCTATCACCTCCAGCACAAATCCAGTGAAAAAGGTGTGAAGCACCACCC  
ATGT

3992/6881

**FIGURE 3681**

AATCCAGAGGCAGGGGAGGGACGGTGCAGGCGCAGAGTATTGGGTTTGGCTGGCCTCGATTAAAGAGACAGAAG  
CTGTCGGGGTCTTGGAAGACGGTCCCAATACCCTCCCCCAAGTCTTGGGACCACTTGGGTCCCCAGAGCTGG  
GGAGATGGTTTTGTGGCGGCTTTGCCTGCTCCAAGAATGCGCTTTGCGCTCTCAACGTGGTCTACATGCTGGTGAG  
CTTGTTGCTCATTGGAGTGGCTGCTTGGGGCAAGGGCTGGGTCTGGTGTCCAGCATCCACATCATCGGCGGAGT  
CATTGCTGTGGGAGTCTTCCTTCTCCTTATTGCAGTGGCTGGACTGGTGGGTGCTGTCAACCACCACCAAGTCTT  
GCTGTTCTTTTACATGATCATCCTTGGTTTGGTCTTTCATCTTCCAATTTGTAATCTCTTGCTCATGTCTGGCTAT  
TAACCGAAGCAAACAGACAGATGTCATCAATGCTTCTTGGTGGGTGATGAGCAACAAGACTCGGGATGAACTGGA  
AAGAAGTTTTGATTGTTGTGGCTTATTCAACCTCACAACTGTATCAACAAGATTATGATTTCTGCACTGCAAT  
CTGCAAGAGCCAGAGCCCCACATGCCAGATGTGTGGAGAAAAGTTTCTTAAGCATTAGACGAAGCCCTGAAAAT  
CCTAGGGGGTGTGGACTCTTCTTTAGCTTTACAGAGATCCTTGGTGTGGCTAGCAATGAGATTTTCGGAATCA  
GAAGGATCCTAGAGCCAACCCAGTGCCTTTCTATGAGACTTTGGATCCTTCTGACTTTTCTTCTGCTCTCTCTA  
AGCTTTCTCTTCTCCCTTAGGGAATATCTAGGGTCTGTAACCGTTTTGGTTTGAGAAAAAGGAAAGGCCCTTG  
TCACATCCTCTAAAATTGATGGAATAGCAAGACTTTATGCCTTGACATATTTTAGTGGGAGCCAGACTATAAGGA  
ATAAAAGGAAAACTTTCTTCTCTCTCCAAGAGGATATGGGAAGCTTCTGTGAGTGCATAGGATGGGGGCTG  
GAGTCATTCTTAGCTGTTTTCCCTTCTCTGTCCATATACTGGATCACCTCAACATACCCTGGTGTGGCTCTAAGG  
GTAAATCAGGGATAGGGCCAAGGAGAAAACAACCAAGAACTCTTTCTGTAATAAGCAGGATCCAGTTTGAGAAA  
GTTTAGCGAATATAAAAGTAAAGCCATTTAAAAATCTATATTCTTTTTTTTTTTGACACAGAGTCTTGCTCTGT  
TGCCCAGGCTGGAGTGCAATGGCATGATCTCGGCTCACCGCAACCTCTGCCTCCCGGGTTCAAGCGATCCTCCTG  
CCTCAGTCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCACGCCCTGACTAATTTTGTATTTTAGTAGAGAC  
AGGGTTTACCATGTTAGTCAGGCTGGTCTCGAACTCTGACCTCAGGTGATCCACCGCGTTGGCCTCCCAACG  
TGCTGGGATTATAGGCGTGAGCCACCACGCCCGCCTAAAAATCCATATTCAAAGAAGCAATTCAGTTCCTTTCT  
AAGCTTTGTGAGTCAAGGGGCTCCACTGACTTCTAGGCCCTGTAATTTAACCAGTCTTTAAGGTTTTGCAGGAA  
AGTCCCTTCTTCCAAGTGGTTTTTCCAAATCGCACAATGGCAAAGCCAAACAGAGGAAGAAACATTAAAAAAA  
AAAAAGACCATTAAAAAAA  
AAAAAAA

3993/6881  
**FIGURE 3682**

MVCGGFACSKNALCALNVVYMLVSLLLIGVAAWGKGLGVSSIHIIGGVIAVGVFLLLIAGLVGAVNHHQVLL  
FFYMIILGLVFIFQFVISCCLAINRSKQTDVINASWWVMSNKTRDELEERSFDCCGLFNLTTLYQQDYDFCTAIC  
KSQSPTCQMCGEKFLKHSDEALKILGGVGLFFSFTEILGVWLAMRFRNQKDPRANPSAFL

3994/6881  
**FIGURE 3683**

AGCCCTCCCAGTTTCCGCGCGCCTCTTTGGCAGCTGGTCACATGGTGAGGGTGGGGGTGAGGGGGCCTCTCTAGC  
TTGCGGCCTGTGTCTATGGTCGGGCCCTCTGCGTCCAGCTGCTCCGGACCGAGCTCGGGTGTATGGGGCCGTAGG  
AACCGGCTCCGGGGCCCCGATAACGGGCCGCCCCACAGCACCCCGGGCTGGCGTGAGGGTCTCCCTTGATCTGA  
GAATGGCTACCTCTCGATATGAGCCAGTGGCTGAAATTGGTGTGCGGTGCCTATGGGACAGTGTACAAGGCCCGTG  
ATCCCCACAGTGGCCACTTTGTGGCCCTCAAGAGTGTGAGAGTCCCCAATGGAGGAGGAGGTGGAGGAGGCCTTC  
CCATCAGCACAGTTTCGTGAGGTGGCTTTACTGAGGCGACTGGAGGCTTTTGAGCATCCCAATGTTGTCCGGCTGA  
TGGACGTCTGTGCCACATCCCGAACTGACCGGGAGATCAAGGTAACCCCTGGTGTGTTGAGCATGTAGACCAGGACC  
TAAGGACATATCTGGACAAGGCACCCCCACCAGGCTTGCCAGCCGAAACGATCAAGGATCTGATGCGCCAGTTTC  
TAAGAGGCCTAGATTTCCCTTCATGCCAATTGCATCGTTTACCAGAGATCTGAAGCCAGAGAACATTCTGGTGACAA  
GTGGTGGAACAGTCAAGCTGGCTGACTTTGGCCTGGCCAGAATCTACAGCTACCAGATGGCACTTACACCCGTGG  
TTGTTACACTCTGGTACCGAGCTCCCGAAGTTCTTCTGCAGTCCACATATGCAACACCTGTGGACATGTGGAGTG  
TTGGCTGTATCTTTGCAGAGATGTTTCGTGCAAAGCCTCTCTTCTGTGGAACTCTGAAGCCGACCAGTTGGGCA  
AAATCTTTGACCTGATTGGGCTGCCTCCAGAGGATGACTGGCCTCGAGATGTATCCCTGCCCCGTGGAGCCTTTC  
CCCCCAGAGGGCCCCGCCAGTGCAGTCGGTGGTACCTGAGATGGAGGAGTCGGGAGCACAGCTGCTGCTGGAAA  
TGCTGACTTTTAACCCACACAAGCGAATCTCTGCCTTTCGAGCTCTGCAGCACTCTTATCTACATAAGGATGAAG  
GTAATCCGGAGTGAGCAATGGAGTGGCTGCCATGGAAGGAAGAAAAGCTGCCATTTCCCTTCTGGACACTGAGAG  
GGCAATCTTTGCCTTTATCTCTGAGGCTATGGAGGGTCTCCTCCATCTTTCTACAGAGATTACTTTGCTGCCTT  
AATGACATTCCCTCCCACCTCTCCTTTTGAGGCTTCTCCTTCTCCTTCCCATTTCTCTACACTAAGGGGTATGT  
TCCCTCTTGTCCTTTCCCTACCTTTATATTTGGGGTCTTTTTTATACAGGAAAAACAAAACAAAGAAATAATG  
GTCTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3995/6881

**FIGURE 3684**

MATSRYEPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGGGGGLPISTVREVALLRRLEAFEHPNVVRLM  
DVCATSRTDREIKVTLVFEHVDQDLRTYLDKAPPPGLPAETIKDLMRQFLRGLDFLHANCIVHRDLKPENILVTS  
GGTVKLADFGGLARIYSYQMALTPVVVTLWYRAPEVLLQSTYATPDMWSVGCIFAEMFRRKPLFCGNSEADQLGK  
IFDLIGLPPEDDWPRDVSLPRGAFPPRGPRPVQSVPEMEESGAQLLLEMLTFNPHKRISAFRALQHSYLHKDEG  
NPE



3996/6881  
**FIGURE 3685**

AGCCCTCCCAGTTTCCGCGCGCCTCTTTGGCAGCTGGTCACATGGTGAGGGTGGGGGTGAGGGGGCCTCTCTAGC  
TTGCGGCCCTGTGTCTATGGTCGGGCCCCTCTGCGTCCAGCTGCTCCGGACCGAGCTCGGGTGTATGGGGCCGTAGG  
AACCGGCTCCGGGGCCCCGATAACGGGCGCCCCCACAGCACCCCGGGCTGGCGTGAGGGTCTCCCTTGATCTGA  
GAATGGCTACCTCTCGATATGAGCCAGTGGCTGAAATTGGTGTCGGTGCCATATGGGACAGTGTAACAAGGCCGTG  
ATCCCCACAGTGGCCACTTTGTGGCCCTCAAGAGTGTGAGAGTCCCCAATGGAGGAGGAGGTGGAGGAGGCCTTC  
CCATCAGCACAGTTTCGTGAGGTGGCTTTACTGAGGCGACTGGAGGCTTTTGAGCATCCCAATGTTGTCCGGCTGA  
TGGACGTCTGTGCCACATCCCGAACTGACCGGGAGATCAAGAGATGTTTCGTGAAAGCCTCTCTTCTGTGGAAA  
CTCTGAAGCCGACCAGTTGGGGCAAAATCTTTGACCTGATTGGGCTGCCTCCAGAGGATGACTGGCCTCGAGATGT  
ATCCCTGCCCCGTGGAGCCTTTCCCCCAGAGGGCCCCGCCAGTGCAGTCGGTGGTACCTGAGATGGAGGAGTC  
GGGAGCACAGCTGCTGCTGGAAATGCTGACTTTTAACCCACACAAGCGAATCTCTGCCTTTCGAGCTCTGCAGCA  
CTCTTATCTACATAAGGATGAAGGTAATCCGGAGTGAGCAATGGAGTGGCTGCCATGGAAGGAAGAAAAGCTGCC  
ATTTCCCTTCTGGACACTGAGAGGGCAATCTTTGCCCTTATCTCTGAGGCTATGGAGGGTCCTCCTCCATCTTTC  
TACAGAGATTACTTTGCTGCCTTAATGACATTCCCCTCCACCTCTCCTTTTGAGGCTTCTCCTTCTCCTTCCCA  
TTTCTCTACACTAAGGGGTATGTTCCCTCTTGTCCTTTCCCTACCTTTATATTTGGGGTCCTTTTTTATACAGG  
AAAAACAAACAAAGAAATAATGGTCTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3997/6881  
**FIGURE 3686**

MATSRYPVAEIGVGAYGTVYKARDPHSGHFVALKSVRPNGGGGGGLPISTVREVALLRLEAFEHPNVVRLM  
DVCATSRTDREIKRCFVESLSSVETLKPTSWAKSLT

3998/6881  
**FIGURE 3687**

GGGGTTGAGATATGATGCTCAGGAGAAGCGCTTTCTTTTCGCGAGCACCTGAACCAGACCATGACCCAGACCCTC  
AAGTACGCCTCCAGAGTGTTCATCGCGTCCGCTGGGCGCCCCGAGTTGGGCGCCTCCCTAGGCTACCGAGAGTAC  
CACTCAGCACGCCGGAGCTTGGCAGACATCCCAGGCCCTCTACGCCAGCTTTCTGGCCGAACTTTTCTGCAAG  
GGGGGGCTGTGAGGCTACACGAGCTGCAGGTGCAGGGCGCCGCGCACTTCGGGCCGGTGTGGCTAGCCAGCTTT  
GGGACAGTGCACACCGTGTACGTGGCTGCCCTGCACTCGTCGAGGAGCTGCTGCGACAGGAGGGACCCCGGCC  
GAGCGCTGCAGCTTCTCGCCCTGGACGGAGCACCGCCGCTGCCGCCAGCGGGCTTGGCGACTGCTCACTGCGGAA  
GGCGAAGAATGGCAAAGGCTCCGCAGTCTCCTGGCCCCGCTCCTCCTCCGGCCTCAAGCGGCCGCCCGCTACGCC  
GGAACCTGAACAACGTAGTCTGCGACCTTGTGCGCGCTCTGAGGCGCCAGCGGGGACGTGGCACGGGGCCGCC  
GCCCTGGTTTCGGGACGTGGCGGGGAATTTTACAAGTTTCGGACTGGAAGGCATCGCCCGGTTCTGCTCGGCTCG  
CGCTTGGGCTGCCTGGAGGCTCAAGTGCCACCCGACACGGAGACCTTCATCCGCGCTGTGGGCTCGGTGTTTGTG  
TCCACGCTGTTGACCATGGCGATGCCCCACTGGCTGCGCCACCTTGTGCTGGGCCCTGGGGCCGCTCTGCCGA  
GACTGGGACCAGATGTTTGCATTTGCTCAGAGGCACGTGGAGCGGCGAGAGGCAGAGGCAGCCATGAGGAACGGA  
GGACAGCCCGAGAAGGACCTGGAGTCTGGGGCGCACCTGACCCACTTCCTGTTCCGGGAAGAGTTGCCTGCCAG  
TCCATCCTGGGAAATGTGACAGAGTTGCTATTGGCGGGAGTGGACACGGTGTCCAACACGCTCTCTGGGCTCTG  
TATGAGCTCTCCCGGCACCCCGAAGTCCAGACAGCACTCCACTCAGAGATCACAGCTGCCCTGAGCCCTGGCTCC  
AGTGCTTACCCCTCAGCCACTGTTCTGTCCAGCTGCCCTGCTGAAGGCGGTGGTCAAGGAAGTGCTAAGACTG  
TACCCTGTGGTACCTGGAAATTCTCGTGTCCAGACAAAGACATTCATGTGGGTGACTATATTATCCCCAAAAAT  
ACGCTGGTCACTCTGTGTCACTATGCCACTTCAAGGGACCTGCCAGTTCCAGAGCCAAATCTTTTCGTCCA  
GCTCGCTGGCTGGGGGAGGGTCCACCCCCACCCATTTGCATCTCTCCCTTTGGCTTTGGCAAGCGCAGCTGT  
ATGGGGAGACGCCTGGCAGAGCTTGAATTGCAAATGGCTTTGGCCAGATCCTAACACATTTTGAGGTGCAGCCT  
GAGCCAGGTGCGGCCCCAGTTAGACCCAAGACCCGGACTGTCTGGTACCTGAAAGGAGCATCAACCTACAGTTT  
TTGGACAGATAGTATCCATGGAAAGAGACTGTCTATCATCACCTTTTCATTTCATCATAGGGATAAGATTTTTGTAG  
GCACAAGACCAAGGTATACATCTTCCCTAATGCCTATCTGACCAAACGGATAGAACCACCATAGTGAAGTGTG  
AGGCGGCCCTGACCAATGTGTGAAGTATGCACTTGGCCTGACTCAGGAAGCCAGGTGAGAAAACCATGGTCTCTC  
TGCTTGCTTGGCCCTTCTGATCATGTATGCATCCCCAAGGATGAAATCAGATTTTAACTAATAATGCTGGATGG  
CCTGAGGAAAGATTCAACTGCCTCTCTTTTGGGCTTTTCATAGTGTTTCATTGATGCTGCTGGCTAAGCATTTATC  
AAAGCATAAGCTCAGTAACTGTGCATCTGGTCTGTACCTGGTGGTTCCTCGTCTTTGCATGTAAGCTCTTTGAG  
AGGAAGGGTGAAGCCTTATTTGTTTTTTATGTCCCTGCCAGGGCCTGTCTCTGACTAGGTGTCACCATAACAT  
TCTTAGATTGAATCTGAACCATGTGGCAGAAGGGATAAGCAGCTTACTTAGTAGGCTCTGTCTACCCCTTCCTT  
CTTTGTCTTGGCCCTAGGAAGGTGAATCTGCCCTAGCCTGGTTTACGGTTTCTTATAACTCTCCTTTGCTCTCTG  
GCCACTATTAAGTGGGTTTGGCCCATCACTTAGTTCTCAGGCAGAGACATCTTGGGCCTGTCCCTGCCAGGCC  
CTGGCTTTTTATATTGAAAATTTTTAAATATTCACAAATTTTAGAATAAATCAAATATTCCATTCTT

3999/6881  
**FIGURE 3688**

MTQTLKYASRVFHRVRWAPELGASLGYREYHSARRSLADIPGPSTPSFLAELFCKGGLSRLHELQVQGAHFQPV  
WLASFGTVRTVYVAAPALVEELLRQEGPRPERCSFSPWTEHRRRCRQRACGLLTAEGEWQRLRSLAPLLLRPQA  
AARYAGTLNNVCDLVRRLRRQRGRGTGPPALVRDVAGEFYKFGLEGIAAVLLGSRLGCLEAQVPPDTETFIRAV  
GSV FVSTLLTMAMPHWLRLVPGPWGRLCRDWDQMFAFAQRHVERREAEAAAMRNGGQPEKDLESGAHLTHFLFRE  
ELPAQSILGNVTELLLAGVDTVSNTLSWALYELSRHPEVQTALHSEITAALSPGSSAYPSATVLSQLPLLKAVVK  
EVLRLYPVVPGNRVPDKDIHVGDYIIPKNTLVILCHYATSRDPAQFPEPNSFRPARWLGEGETPHPFASLPFGF  
GKRSCMGRRLAELELQMALAQILTHFEVQPEPGAAPVRPKTRTVLVPERSINLQFLDR

4000/6881  
**FIGURE 3689**

GGCCTGCGCCTCCACGTGGATTGGTAGAGAAACCCGGACTGGGATCATGGCAGCCGAGACTCGGAACGTGGCC  
GGAGCAGAGGCCCCACCGCCCCAGAAGCGCTACTACCGGCAACGTGCTCACTCCAACCCCATGGCGGACCACACG  
CTGCGCTACCCCTGTGAAGCCAGAGGAGATGGACTGGTCTGAGCTATACCCAGAGTTCTTCGCTCCACTCACTCAA  
AATCAGAGCCACGATGACCCAAAGGATAAGAAAGAAAAGAGAGCTCAGGCCCAAGTGGAGTTTGCAGACATAGGC  
TGTGGCTATGGTGGCCTGTTAGTGGAACGTGCACCGCTGTTCAGACACACTTATTCTGGGTCTGGAGATCCGG  
GTGAAGGTCTCAGACTATGTACAAGACCGGATTTCGGGCCCTACGCGCAGCTCCTGCAGGTGGCTTCCAGAACATC  
GCCTGTCTCCGTAGCAATGCCATGAAGCACCTTCCTAAGTCTTCTTCTACAAGGGCCAGCTGACAAAGATGTTCTTC  
CTCTCCCCGACCCACATTCAAGCGGACAAAGCACAAAGTGGCGAATCATCAGTCCCACCCTGCTAGCAGAATAT  
GCCTACGTGCTAAGAGTTGGGGGGCTGGTGTATACCATAACCGATGTGCTGGAGCTACACGACTGGATGTGCACT  
CATTTGAAGAGCACCCACTGTTTGAGCGTGTGCCTCTGGAGGACCTGAGTGAAGACCCCGTTGTGGGACATCTA  
GGCACCTCAACTGAGGAGGGGAAGAAAGTTTACGTAATGGAGGGAAGAATTTCCAGCCATCTTCCGAAGAATA  
CAAGATCCCGTCTCCAGGCAGTGACCTCCCAAACAGCCTGCCTGGTCACTTGACTGCTTACTCTACCTTAGCTG  
GACCTCGTCTCCAGGGATTAGAGAAAAGAGCAGGAGTCCTGGGTCTTCCAGTTGAGACTGCTGGAGCTGAGAC  
ACAGTACTCTCTTAAAGAAGGTGGGGAGCTGCCCAGGGCAGAACCCACTGGTGTTCATGACTACCCCTGGCTCCT  
CTCACCTGTCCCTCCACTGCCAACAGAAAACAAAGCAGCTGACTGAGATGGTCAAAGGACTTTGGACCATAGGG  
GATCTTTGAAGGCTGTGGGGTCTTGCTCTTCCTTAGCACTCCTTTCTCCTTGTGAGATCTCTCCTCAGCTGGAA  
TGAGGAATGTAGTCCATCTAACTGCTTGCTAGGCTCAATTACCACTTCTGTTTGTGATCCTGGGATAA  
CATGTATAIGTGTACACATGCCTATTCTGCCATTCTCAGGAAAGGGTGGAGTATGTATCATATGCCTTCTACCA  
TCCTCCTGTCTCTCCCTGCGTAAGACTTGACCTGGGGAATCTGTGTTCCCTAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

4001/6881  
**FIGURE 3690**

MAAETRVAGAEAPPPQKRYRQRAHSNPMADHTLRYPVKPEEMDWSELYPEFFAPLTQNQSHDDPKDKKEKRAQ  
AQVEFADIGCGYGGLLVELSPLFPDTLILGLEIRVKVSDYVQDRIRALRAAPAGGFQNIACLRSNAMKHLPNFFY  
KGQLTKMFFLFPDPHFKRTKHKWRIISP TLLAEYAYVLRVGGLVYTITDVLELHDMCTHFEEHPLFERVPLEDL  
SEDPVVGHLGTSTEEGKKVLRNGGKNFPAIFRRIQDPVLQAVTSQTSPLPGH

4002/6881  
**FIGURE 3691**

4003/6881  
**FIGURE 3692**

MAAETRVAGAEAPPPQKRYRQRAHSNPMADHTLR



4004/6881

**FIGURE 3693**

[illegible]

4005/6881

**FIGURE 3694**

MAAETRVAGAEAPPPQKRYRQRAHSNPMADHTLRYPVKPEEMDWSSELYPEFFAPLTQNQSHDDPKDKKEKRAQ  
AQVEFADIGCGYGGLLADKDVLP LPRPTFQADKAQVANHQSHFPASRICLRKSWGAGVYHNRCAGATRLDVHSFR  
RAPTV

4006/6881  
**FIGURE 3695**

GGGGGGAGGGTGTTTATCGCGGCTAGAGAGATGTCGCTGCTGCGGTGCTGCGCGTGTTTCTGGTCGCGCGGACC  
GGGAGCTACCCGGCTGGGTCTCTTCTGCGTCAGTCGCCCCAGCCAAGGCACACATTTATGCTGGGCCCCGTCTG  
TCTGCCTCGGCCTCCAGCAAGGAGCTCCTCATGAAGCTGCGGCGGAAAACAGGCTACTCCTTTGTAAATTGCAAG  
AAAGCTCTGGAGACTTGTTGGCGGGGACCTCAAACAGGCAGAGATCTGGCTCCACAAGGAGGCCCAGAAGGAGGGC  
TGGAGCAAAGCTGCCAAGCTCCAAGGGAGGAAGACCAAAGAAGGCCTGATTGGGCTGTTGCAGGAAGGAAACACA  
ACTGTATTAGTAGAGGTAAACTGTGAGACAGATTTTGTCTAGAAAATTTAAAATTTCAACTGTTGGTCCAGCAA  
GTAGCCCTTGGAACCATGATGCATTGTCAGACCCTAAAGGATCAACCCTCTGCATACAGTAAAGTGCAGTGGCTC  
ACGCCTGTAAACCTAGCACITTTGGGAGGCTGAAGCAGGTGGATCACTTGAGGGTTTCTTGAATTCCTCTGAGCTT  
TCTGGACTTCCAGCTGGGCCTGACAGAGAAGGCTCACTCAAGGATCAGTTGGCTTTAGCAATTGGAAAACCTGGGA  
GAAACATGATTCTTAAACGAGCTGCATGGGTGAAGGTGCCATCTGGGTTCTACGTTGGCTCTTATGTCCACGGA  
GCAATGCAGAGTCCCTCACTTCACAAGCTGGTGCTGGGGAAGTATGGGGCCCTGGTCATCTGTGAGACGTCTGAA  
CAGAAAACAAACCTTGAAGACGTTGGCCGCCCTTGGGCAGCATGTGGTGGGCATGGCCCCCTCTCTGTTGGC  
TCCCTGGACGATGAGCCTGGGGGAGAGGCAGAGACTAAGATGCTGTCCCAGCCGTATTTGCTGGATCCCTCCATT  
ACCTTGGGGCAGTATGTGCAGCCTCAGGGGGTGTGCGGTAGTAGACTTTGTGCGGTTTGAATGTGGAGAAGGTGAA  
GAGGCAGCAGAACTGAATAGGTTCCAGAGACTTTTGGCCCAGGAGGAATATTTACTTTTAGCTCTGGACATCAT  
TACAAAAAGGAATATTTCCCAAACCTCTTCAGACCGAGAATGCATGGGTAAAATTATTAAATAGTTGTATAATAA  
AAATAATTTTTTCTTGTGTCACAAAAA

4007/6881  
**FIGURE 3696**

MSLLRSLRVFLVARTGSYPAGSLLRQSPQPRHTFYAGPRLSASASSKELLMKLRRKTGYSFVNCKKALET CGGDL  
KQAEIWLHKEAQKEGWSKAAKLQGRKTKEGLIGLLQEGNTTVLVEVNCETDFVSRNLKFQLLVQQVALGTMHCQ  
TLKDQPSAYS SKVQWLTPVNLALWEAEAGGSLEGFLNSSELSGLPAGPDREGSLKDQLALAIGKLGEMILKRAAW  
VKVP SGFYVGSYVHGAMQSPSLHKLVLGKYGALVICETSEQKTNLEDVGRRLGQHVVGMAPLSVGS LDDEPGGEA  
ETKMLSQPYLLDPSITLGQYVQPQGVSVVDFVRFECGE GEEAAETE